BLAUPUNKT
Bosch Telecom

Video Camera Recorder
CCR-800 7 618 844

Netzadapter / AC Power Adaptor
PC-77 7 618 796

Zubehör - Sonderzubehör
Accessories - Optional Accessories

Kundendienstschrift • Service Manual

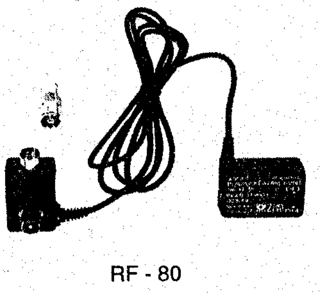
Ⓓ Btx ✶ 30 39 68 # MC / VKD 1 D91 420 005

VIDEO 8

FL-Mechanik
FL Mechanism

6x
BLAUPUNKT
CCR-800
8
AX - 77

BLAUPUNKT
PC - 77



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Technische Daten:

Video Camera Recorder CCR-800

Stromversorgung:	An Montageflansch anbringbar: Akku (6,0 V) Netzadapter (7,5 V)
Stromaufnahme:	4,8 W, einschl. Sucher
Betriebsposition:	Vertikal, horizontal
Betriebstemperatur:	0°C bis 40°C
Lagertemperatur:	-20°C bis +60°C
Abmessungen:	ca. 108 x 104 x 168 mm (B/H/T), einschl. Sonnenblende
Gewicht:	ca. 700 g, ohne Akku und Cassette
Mikrofon:	Elektret-Kondensatortyp,

System

Video-Aufnahmesystem:	4 rotierende Köpfe, Schrägspurverfahren, Frequenzmodulation
Audio-Aufnahmesystem:	Rotierende Köpfe, FM
Videosignal:	PAL-Farbnorm, CCIR-TV-Norm
Verwendbare Cassetten:	8-mm-Videoformat
Bandgeschwindigkeiten:	SP: ca. 20,051 mm/s LP: ca. 10,058 mm/s
Aufnahmezeit:	SP: 1,5 Std. (P5-90) LP: 3 Std. (P5-90)
Wiedergabezeit:	SP: 1,5 Std. (P5-90) LP: 3 Std. (P5-90)
Umspulzeit:	ca. 8 Min. 30 Sek. (P5-90)
Bildwandler:	CCD-Element (Charge Coupled Device 320 000 Bildpunkte)
Sucher:	Elektronisch (Schwarzweiß)
Objektiv:	6fach-Motorzoom, 1 : 2,0 / 7 - 42 mm mit Makro, Filterdurchmesser 37 mm
Autofocussystem:	TTL
Farbtemperatur:	AUTO HOLD INDOOR 3200 K OUTDOOR 5800 K
Min. Beleuchtungsstärke:	7 Lux
Beleuchtungsstärkenbereich:	7 Lux - 100.000 Lux (0,7 - 9 294 Footcandles)
***Empfohlene* Beleuchtungsstärke:**	Über 150 Lux (13,9 Footcandles)
Blendenkorrektur:	Automatisch

Eingänge und Ausgänge:

Videoausgang:	Cinchbuchse, 1 V_{ss}, 75 Ohm, *unsymmetrisch*, Video positiv
Audioausgang:	Cinchbuchse, -7,5 dB, Ausgangsimpedanz von unter 2,2 kOhm
DC OUT:	Spezial-Minibuchse, 5 V Gleichspannung
Fernsteuerbuchse:	Stereo-Spezial-Mini
MIC-Buchse:	Mini, -66 dB, niedrige Impedanz, mit 2,5 - 3 V Gleichspannungsausgabe, Impedanz 6,8 kOhm

Lieferumfang:

1 Stück	Akku AX-77 (6V / 1 Ah)
1 Stück	Netzadapter PC-77
1 Stück	HF-Adapter RF-80
1 Stück	Lithium Batterie 3V (CR 2025)
1 Stück	Objektivkappe
1 Stück	Schulterriemen
1 Stück	Bedienungsanleitung
1 Stück	8mm Videokassette (P5-60)
1 Stück	Zwischenring 37 mm Ø auf 46 mm Ø
1 Stück	AV-Buchsenkappe
1 Stück	Stromversorgungskabel

Specifications:

Video Camera Recorder CCR-800

Power requirements:	On battery mounting surface 6.0 V (battery pack) 7.5 V (AC power adaptor)
Power consumption:	4.8 W (camera recording) including the viewfinder
Installation:	Vertically, horizontally
Operating temperature:	0°C to 40°C
Storage temperature:	-20°C to +60°C
Dimensions:	Approx. 108 x 104 x 168 mm (w/h/d) including sunshade
Weight:	Approx 700 g excluding the battery and cassette
Microphone:	Electret condenser microphone

System

Video recording system:	Four Rotary heads, Helical scanning, FM system
Audio recording system:	Rotary heads, FM system
Video signal:	PAL colour, CCIR standards
Usable cassette:	8 mm video format cassette
Tape speed:	SP: Approx. 20.051 mm/sec. LP: Approx. 10.058 mm/sec. SP mode: 1 hour 30 min. (P5-90) LP mode: 3 hours (P5-90)
Playback time:	SP mode: 1 hour 30 min. (P5-90) LP mode: 3 hours (P5-90)
Fast forward/rewind time:	Approx. 8 min. 30 sec. (P5-90)
Image device:	CCD (Charge Coupled Device 320 000 pixel)
Viewfinder:	Electronic viewfinder (b/w)
Lens:	Combined 6 x power zoom lens f = 7 - 42 mm. F 2.0 with *macro*, Filter diameter: 37 mm
Auto focus system:	TTL
Colour temperature:	AUTO HOLD INDOOR 3200 K OUTDOOR 5800 K
Minimum illumination:	7 lux
Illumination range:	7 lux - 100 000 lux (0.7 - 9 294 footcandles)
Recommended illumination:	More than 150 lux (13.9 footcandles)
Apperture correction:	*Automatic*

Input and output connector:

Video output:	Phono jack, 1 V_{p-p}, 75 ohms unbalanced sync negative
Audio output:	Phono jack, -7.5 dB, (at output impedance less than 2.2 kohms)
RFU DC OUT	Special minijack, DC 5 V
Remote jack:	Stereo special minijack
MIC jack:	Minijack, -66 dB, low impedance with 2.5 - 3 V DC output, impedance 6.8 kohms

Accessories Supplied:

1 piece	Battery pack AX-77 (6V / 1 Ah)
1 piece	AC power adaptor PC-77
1 piece	RFU adaptor RF-80
1 piece	Lithium battery 3V (CR 2025)
1 piece	Lens cap
1 piece	Shoulder strap
1 piece	*Operating instructions*
1 piece	P5-60 tape
1 piece	Step up ring Ø 37 mm on Ø 46 mm
1 piece	Jack cover
1 piece	Power cable

Transporthinweis:

Wird der Camerarecorder längere Zeit nicht benutzt (bzw. gelagert oder transportiert) ist der Akku abzunehmen, da auch im abgeschaltetem Zustand ein kleiner Strom fließt.

Mechanische Wartung

Nachstehende Teile benötigen eine regelmäßige Reinigung, da sich mit der Zeit Bandabrieb ansammelt.
Bei Verwendung von Marken-Videocassetten sind die Reinigungsarbeiten nach ca. 500 Betriebsstunden durchzuführen. Bei Verwendung anderer Videocassetten können die Reinigungsarbeiten schon nach kürzerer Betriebszeit notwendig werden.

Reinigung der Rotationsköpfe

- Demontage der Gehäuseteile siehe „Servicevorbereitungen" Seite 4.
- Ein weiches Ledertuch (Kopfreiniger 8 627 000 552) oder ein fusselfreies Tuch mit reinem Alkohol anfeuchten und mit sanftem Druck auf die Rotationsköpfe halten. Nun die Kopfscheibe mit der Hand hin- und herbewegen. Diesen Vorgang wiederholen, bis der Bandabrieb beseitigt ist.

Reinigung von Führungsrollen, Andruckrolle, Capstanwelle und Bandführungen.

- Diese Teile sind mit einem Wattestäbchen, das mit reinem Alkohol angefeuchtet ist, zu reinigen.
- Nach Beendigung der Reinigungsarbeiten die demontierten Teile wieder montieren.
- Bevor die Videocassette eingesetzt wird, müssen alle gereinigten Teile gut abgetrocknet sein, um Bandschäden zu vermeiden.
- Antriebsriemen und Lager benötigen unter normalen Betriebsbedingungen keine Wartung.

Aufbau der CCR-800 (Innenansicht)

Transport Advice

If the camcorder will not be used for some time (or stored or transported resp.) the battery pack must be taken off, as there is always a small current flowing.

Mechanical Servicing

The following parts require regular cleaning because of gradual tape abrasion.
If you use brand video cassettes, cleaning has to be performed approximately after 500 working hours. If you use other video cassettes, cleaning already becomes necessary after a shorter working time.

Cleaning of rotary heads

- Disassembly of the cabinet parts, see page 4 "Service Preparations".
- Moisten a soft leather cloth (head cleaner 8 627 000 552) or a lintfree cloth with pure alcohol and press it softly on the rotary heads. Move the upper cylinder by hand in either direction and repeat this procedure until the tape abrasion has been removed.

Cleaning of the guide rollers, pressure roller, capstan shaft and the tape sliders.

- These parts have to be cleaned with a cotton-wool bud moistened with pure alcohol.
- After finishing these cleaning works reassemble all disassembled parts.
- Before the video cassette can be inserted all cleaned parts have to be completely dry in order to avoid tape defects.
- Drive belts and bearing do not require servicing in normal working conditions.

Construction of CCR-800 (Internal View)

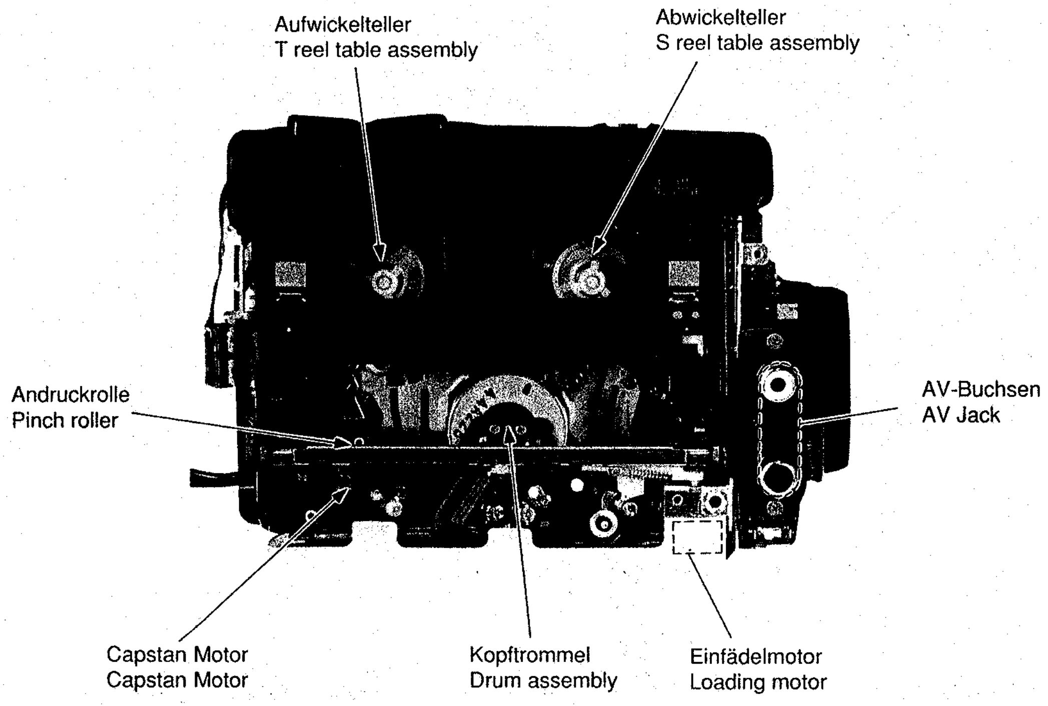


Fig. A

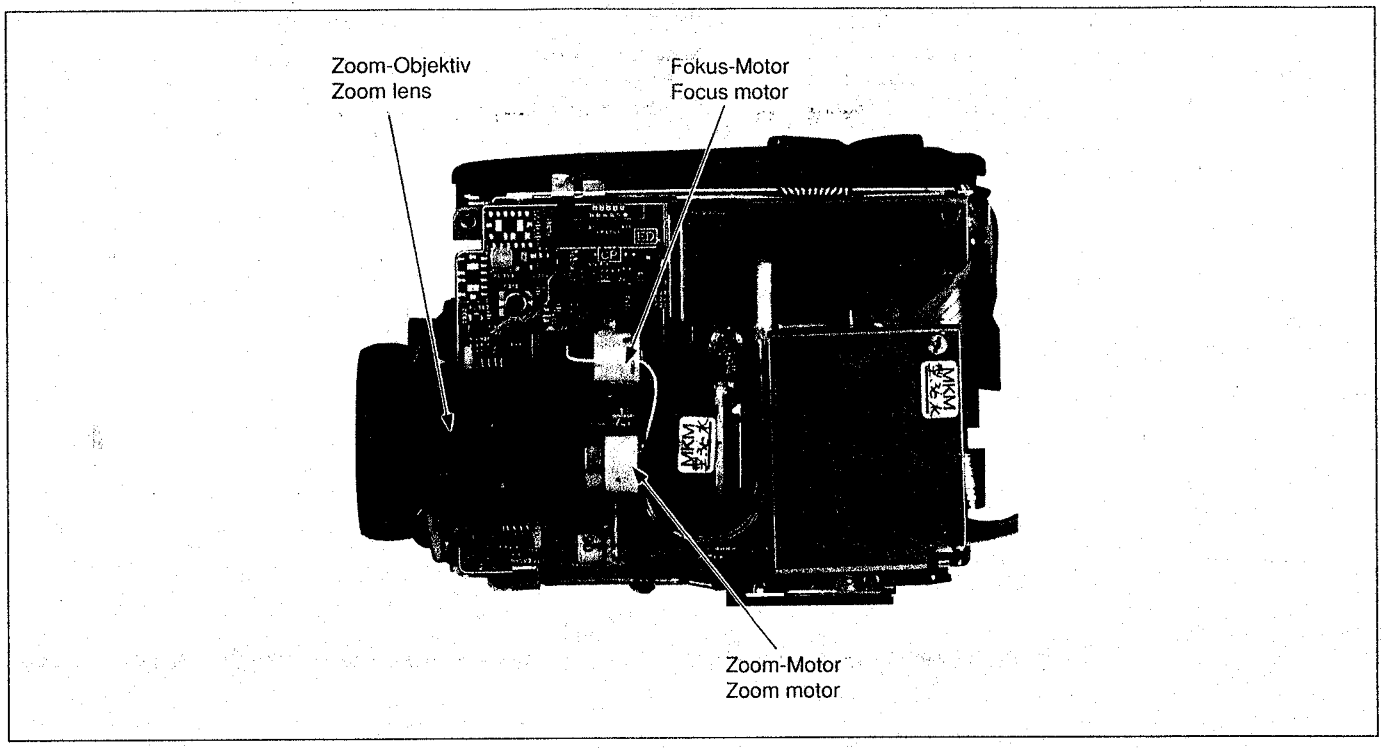

Zoom-Objektiv
Zoom lens
Fokus-Motor
Focus motor
Zoom-Motor
Zoom motor

Fig. B

Servicevorbereitungen

Flußdiagramm zur Demontage

Dieses Flußdiagramm zeigt die Reihenfolge, in der Gehäuseteile und Leiterplatinen demontiert werden müssen, um diejenigen Teile zu erreichen, bei denen Service notwendig ist.
Beim Zusammenbau die Schritte in umgekehrter Reihenfolge durchführen.

Hinweis:
Das Gerät ist sehr kompakt gebaut und hat teilweise Verriegelungsklemmen anstelle von Befestigungsschrauben. Arbeiten Sie daher beim Service äußerst vorsichtig, damit diese Verriegelungsklemmen nicht abbrechen.

Service Preparations

Disassembly Flowchart

This flowchart indicates disassembly steps of the cabinet parts and the P.C. Boards in order to find the items necessary for servicing.
When reassembling, perform the steps in the reverse order.

Note:
This unit is very compact and has partly been fitted with claws instead of fixing screws. When removing the cabinet, work with care so as not to break the claws.

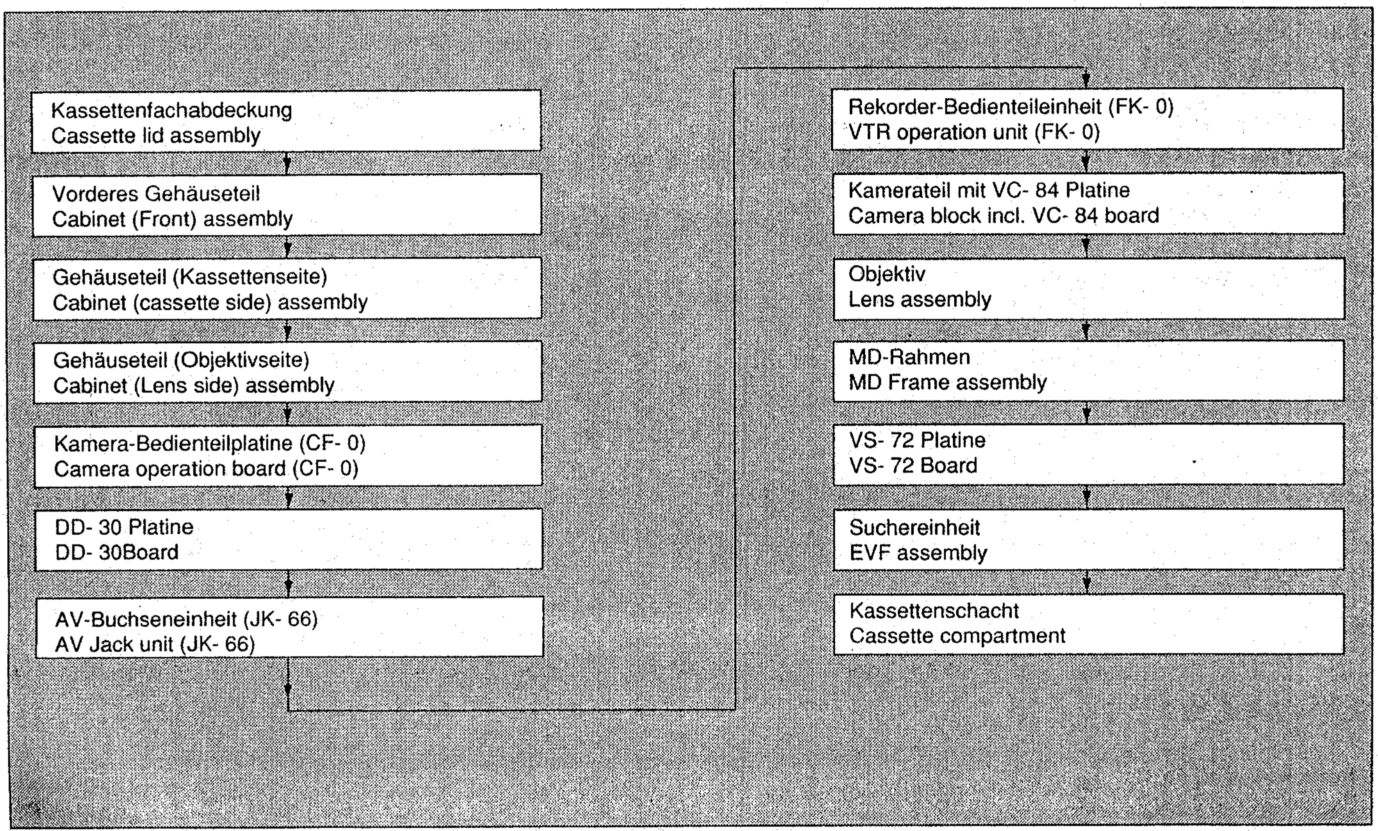

Kassettenfachabdeckung
Cassette lid assembly
Vorderes Gehäuseteil
Cabinet (Front) assembly
Gehäuseteil (Kassettenseite)
Cabinet (cassette side) assembly
Gehäuseteil (Objektivseite)
Cabinet (Lens side) assembly
Kamera-Bedienteilplatine (CF- 0)
Camera operation board (CF- 0)
DD- 30 Platine
DD- 30Board
AV-Buchseneinheit (JK- 66)
AV Jack unit (JK- 66)
Rekorder-Bedienteileinheit (FK- 0)
VTR operation unit (FK- 0)
Kamerateil mit VC- 84 Platine
Camera block incl. VC- 84 board
Objektiv
Lens assembly
MD-Rahmen
MD Frame assembly
VS- 72 Platine
VS- 72 Board
Suchereinheit
EVF assembly
Kassettenschacht
Cassette compartment

Fig. 1

Demontage der Gehäuseteile und Aufklappen der Platinen

Hinweise:

- Um eine Beschädigung der Teile bei der Reparatur zu vermeiden, weiches Material unter die Leiterplatinen oder das Gerät legen.
- Beim Zusammenbau sicherstellen, daß alle elektrischen Verbindungen hergestellt und keine Bauteile beschädigt sind.
- Während der Arbeiten dem Gerät keine Spannung zuführen.

Disassembly of Cabinet and Opening the Printed Wiring Boards

Notes:

- Place the cloth or any other soft material under the P.C. Boards or unit for preventing them from being damaged while servicing.
- When reinstalling, ensure that the connectors are connected and that no electrical components are damaged.
- Do not supply power to the deck during working.

Teil Part	Fig. Fig.	Entfernen, entriegeln, abziehen Remove, unlock, disconnect
Kassettenfachabdeckung Cassette lid assembly	2 2	2 Schrauben (A) 2 Screws (A)
Vorderes Gehäuseteil Cabinet (front) ass.	3 3	2 Schrauben (B), 1 Schraube (C), 1 Verriegelung (D), 2 Stecker (CN 756, CN 402) 2 Screws (B), 1 Screw(C), 1 Claw (D), 2 Connectors (CN 756, CN 402)
Gehäuseteil (Kass.) Side case (Cass.) ass.	4 4	2 Schrauben (E), 2 Schrauben (F), 1 Schraube (G) 2 Screws (E), 2 Screws (F), 1 Screw (G)
Gehäuseteil (Objektivseite) Cabinet (lens side) ass.	5,6 5,6	1 Schraube (I), 2 Schrauben (J), 1 Schraube (K), 2 Schrauben (L), 2 Stecker (CN 205, CN 804) 1 Screw (I), 2 Screws (J), 1 Screw (K), 2 Screws (L), 2 Connectors (CN 205, CN 804)
Kamera-Bedienteilpl.(CF- 0) Camera oper.board (CF- 0)	7 7	1 Schraube (M), 2 Schrauben (N), 1 Schraube (O), 1 Stecker (CN 753),3 Verriegelungen (P) 1 Screw (M), 2 Screws (N), 1 Screw (O), 1 Connector (CN 753), 3 Claws (P)
DD- 30 Platine DD- 30 Board	7 7	1 Schraube (Q), 2 Stecker (CN 2, CN 3) 1 Screw (Q), 2 Connectors (CN 2, CN 3)
AV- Buchseneinheit (JK- 66) AV jack unit (JK- 66)	8 8	1 Schraube (R), 2 Schrauben (S), 2 Stecker (CN 201, CN 203) 1 Screw (R), 2 Screws (S), 2 Connectors (CN 201, CN 203)
VTR- Bedienteileinh. (FK- 0) VTR oper.unit (FK- 0)	9 9	4 Schrauben (T), 1 Stecker (CN 603) 4 Screws (T), 1 Connector (CN 603)
Kamerateil mit VC- 84 Platine Camera unit incl. VC- 84 board	9 9	1 Schraube (U), 2 Stecker (CN 802, CN 202) 1 Screw (U), 2 Connectors (CN 802, CN 202)
Objektiv Lens assembly	10 10	2 Schrauben (V), 7 Stecker (CN 705, CN 704, CN 703, CN 706, CN 702, CN 302, CN 802) 2 Screws (V), 7 Connectors (CN 705, CN 704, CN 703, CN 706, CN 702, CN 302, CN 802)
MD- Rahmen MD frame assembly	11 11	2 Schrauben (W) 2 Screws (W)
VS- 72 Platine VS- 72 Board	12 12	3 Schrauben (X), 6 Stecker (CN 602, CN 501, CN 601, CN 607, CN 101, M 902) 3 Screws (X), 6 Connectors (CN 602, CN 501, CN 601, CN 607, CN 101, M 902)
Suchereinheit EVF assembly	13 13	2 Schrauben (Y), 1 Schraube (Z), 1 Stecker (CN 951),1 Verriegelung 2 Screws (Y), 1 Screw (Z), 1 Connector (CN 951), 1 Claw
Kassettenschacht Cassette compartment	14 14	1 Schraube (a), 3 Schrauben (b), 1 Schraube (c) 1 Screw (a), 3 Screws (b), 1 Screw (c)

Entfernen der Kassettenfachabdeckung
Removal of cassette lid assembly

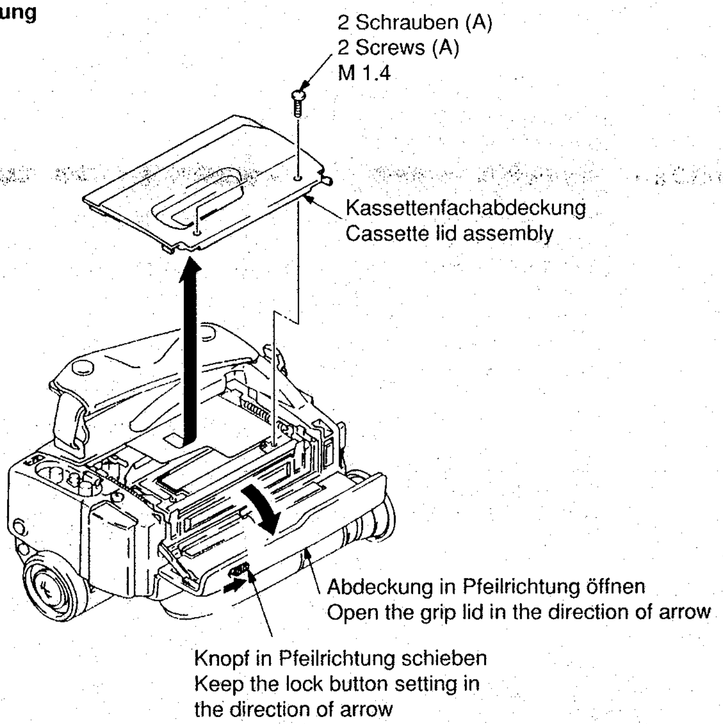
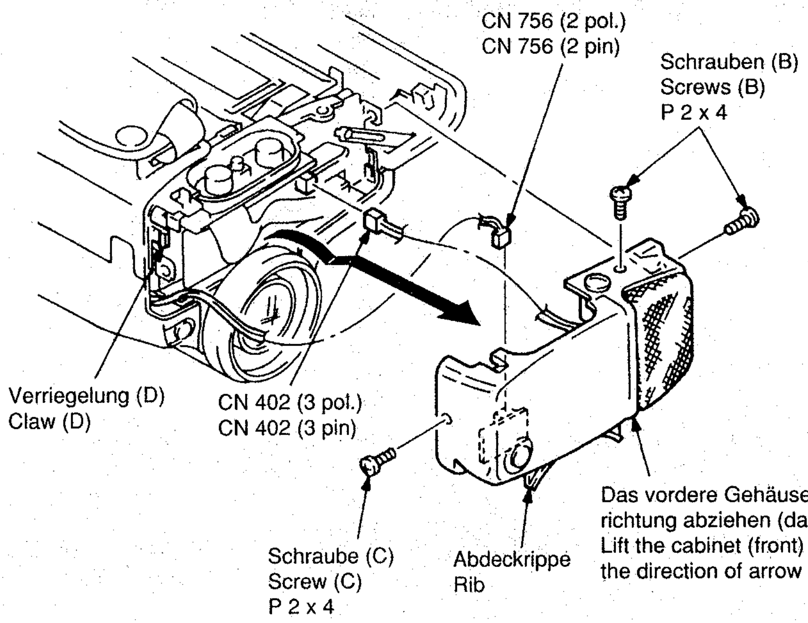

2 Schrauben (A)
2 Screws (A)
M 1.4
Kassettenfachabdeckung
Cassette lid assembly
Abdeckung in Pfeilrichtung öffnen
Open the grip lid in the direction of arrow
Knopf in Pfeilrichtung schieben
Keep the lock button setting in the direction of arrow

Fig. 2

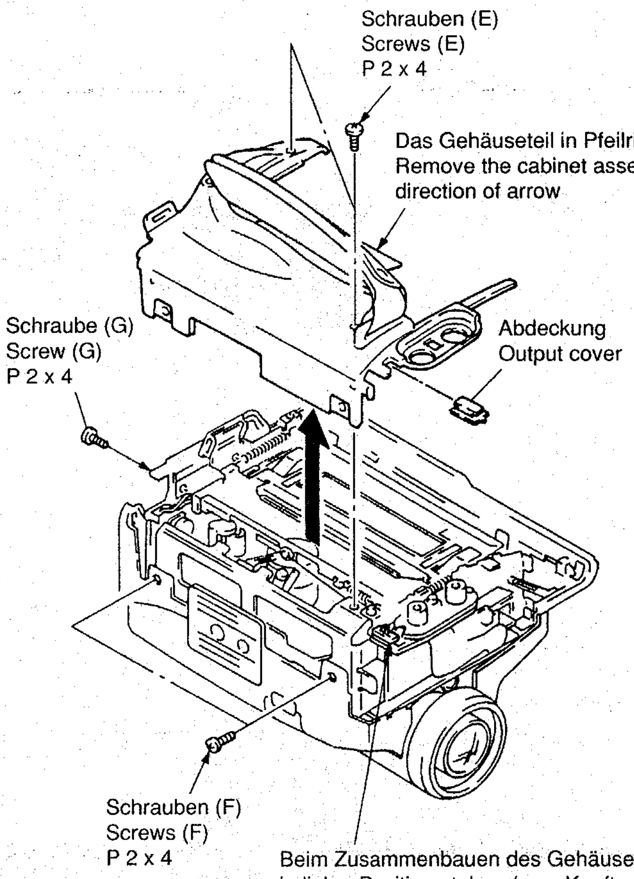
Entfernen des vorderen Gehäuseteiles
Removal of cabinet (front) assembly


CN 756 (2 pol.)
CN 756 (2 pin)
Schrauben (B)
Screws (B)
P 2 x 4
Verriegelung (D)
Claw (D)
CN 402 (3 pol.)
CN 402 (3 pin)
Schraube (C)
Screw (C)
P 2 x 4
Abdeckrippe
Rib

Das vordere Gehäuseteil etwas anheben und in Pfeilrichtung abziehen (dabei auf die Abdeckrippe achten)
Lift the cabinet (front) assembly a little and remove it in the direction of arrow (be careful of the rib)

Fig. 3

Entfernen des Gehäuseteiles (Kassettenteil)
Removal of side case (cass.) assembly


Schrauben (E)
Screws (E)
P 2 x 4
Schraube (G)
Screw (G)
P 2 x 4
Abdeckung
Output cover
Schrauben (F)
Screws (F)
P 2 x 4

Das Gehäuseteil in Pfeilrichtung abnehmen
Remove the cabinet assembly in the direction of arrow

Beim Zusammenbauen des Gehäuses muß der Schalter in linker Position stehen (zum Kopftrommelmotor)
When installing the cabinet assembly, set the switch knob to the left (drum side)

Fig. 4

Entfernen des Gehäuseteiles (Objektivseite)
Removal of cabinet (lens side) assembly

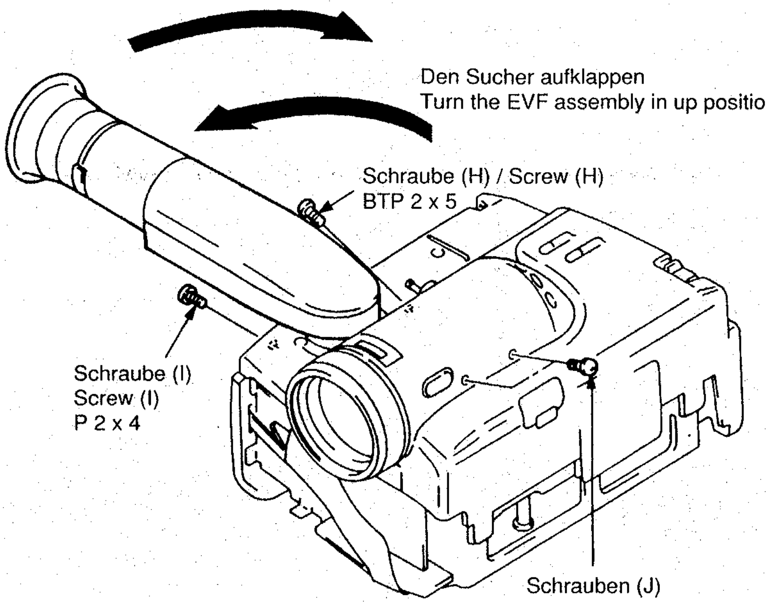

Den Sucher in die „Normal"- Position zurückschwenken
Restore the EVF assembly to the original position
Den Sucher aufklappen
Turn the EVF assembly in up position
Schraube (H) / Screw (H)
BTP 2 x 5
Schraube (I)
Screw (I)
P 2 x 4
Schrauben (J)
Screws (J)
BTP 2 x 5

Fig. 5

Entfernen des Gehäuseteiles (Objektivseite)
Removal of cabinet (lens side) assembly

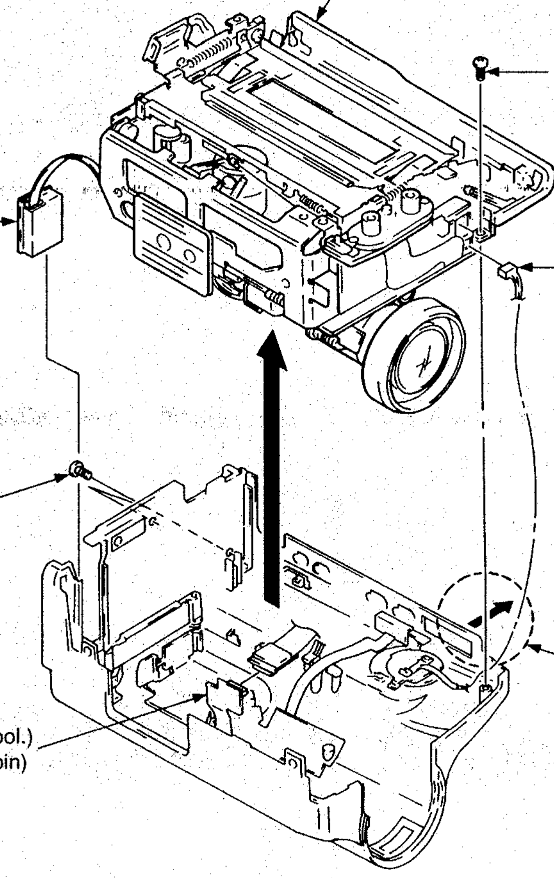
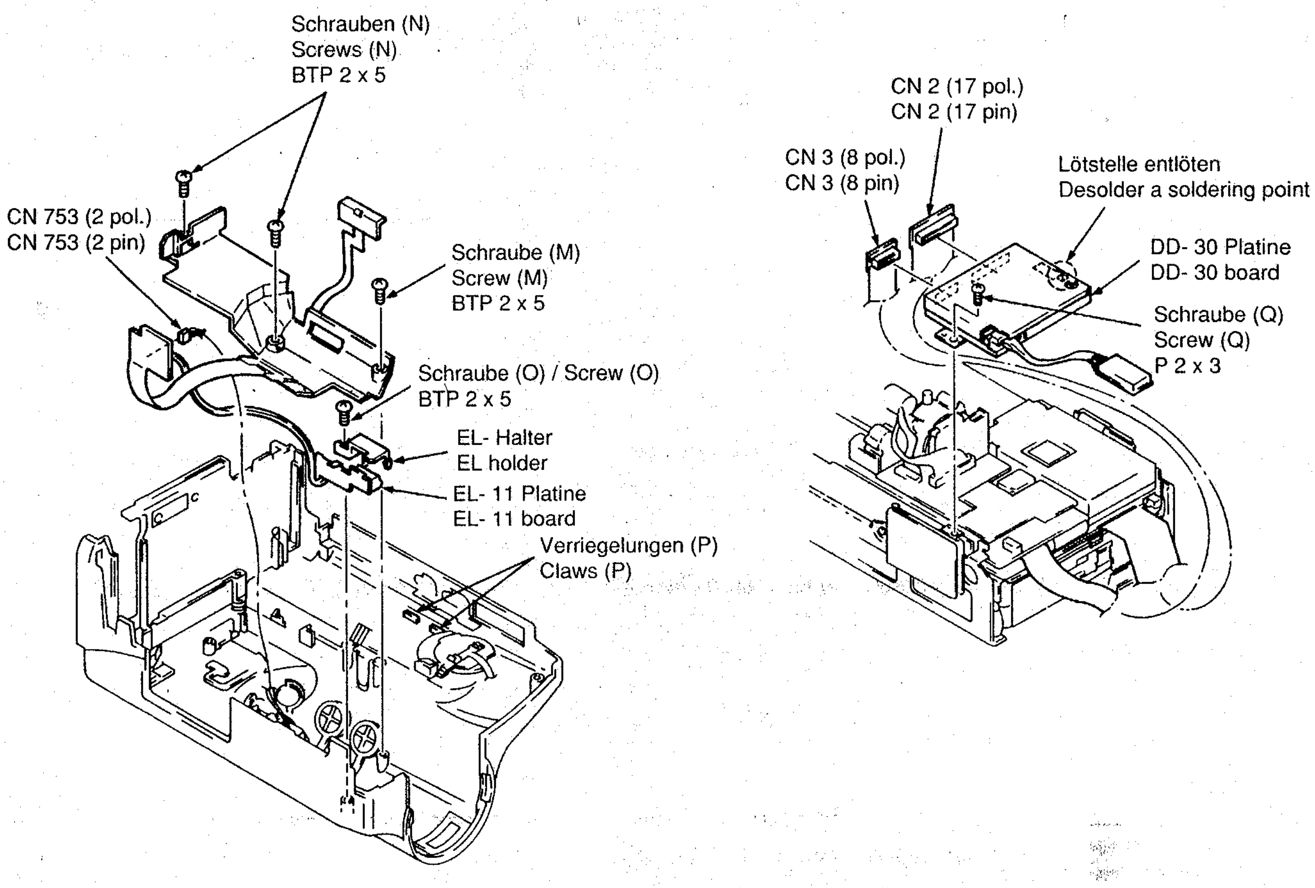

Das Rekorder- und Kamerateil aus der Gehäuseschale heben, dabei den Bereich „A" in Pfeilrichtung drücken
Lift up the VTR and Camera blocks, while turning the "A" section in the direction of arrow
Schraube (K)
Screw (K)
BTP 2 x 5
Batterieanschluß
Battery terminal
CN 205 (4 pol.)
CN 205 (4 pin)
Schrauben (L)
Screws (L)
P 2 x 4
Bereich „A"
"A" section
CN 804 (16 pol.)
CN 804 (16 pin)

Fig. 6



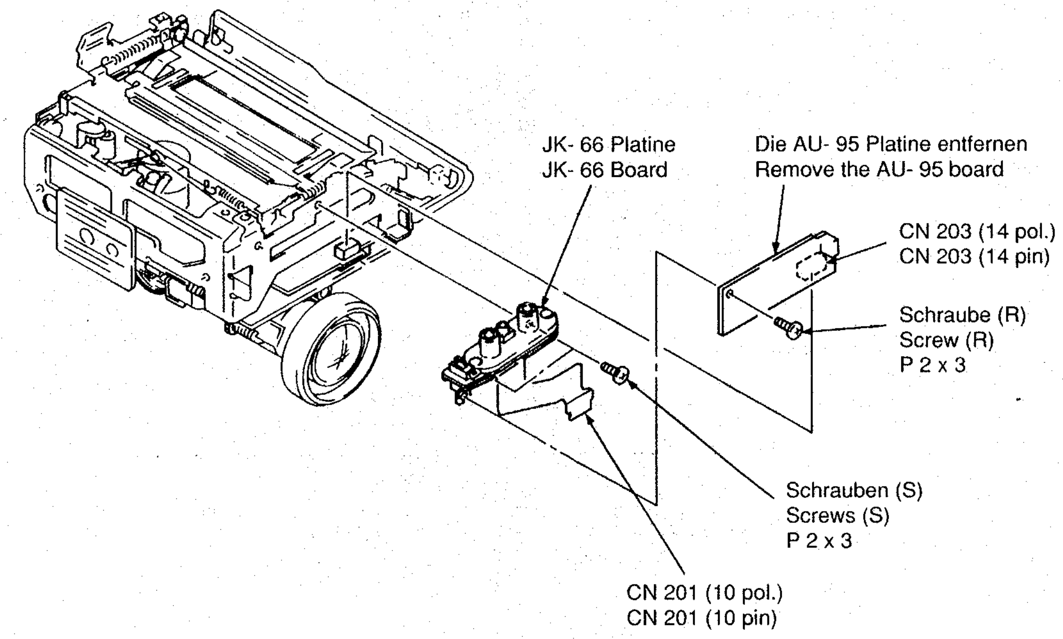
Ausbauen der Kamera- Bedienteilplatine (CF- 0)
Removal of camera operation board (CF- 0)

Ausbauen der DD- 30 Platine
Removal of DD- 30 board

Schrauben (N)
Screws (N)
BTP 2 x 5
CN 753 (2 pol.)
CN 753 (2 pin)
Schraube (M)
Screw (M)
BTP 2 x 5
Schraube (O) / Screw (O)
BTP 2 x 5
EL- Halter
EL holder
EL- 11 Platine
EL- 11 board
Verriegelungen (P)
Claws (P)
CN 2 (17 pol.)
CN 2 (17 pin)
CN 3 (8 pol.)
CN 3 (8 pin)
Lötstelle entlöten
Desolder a soldering point
DD- 30 Platine
DD- 30 board
Schraube (Q)
Screw (Q)
P 2 x 3

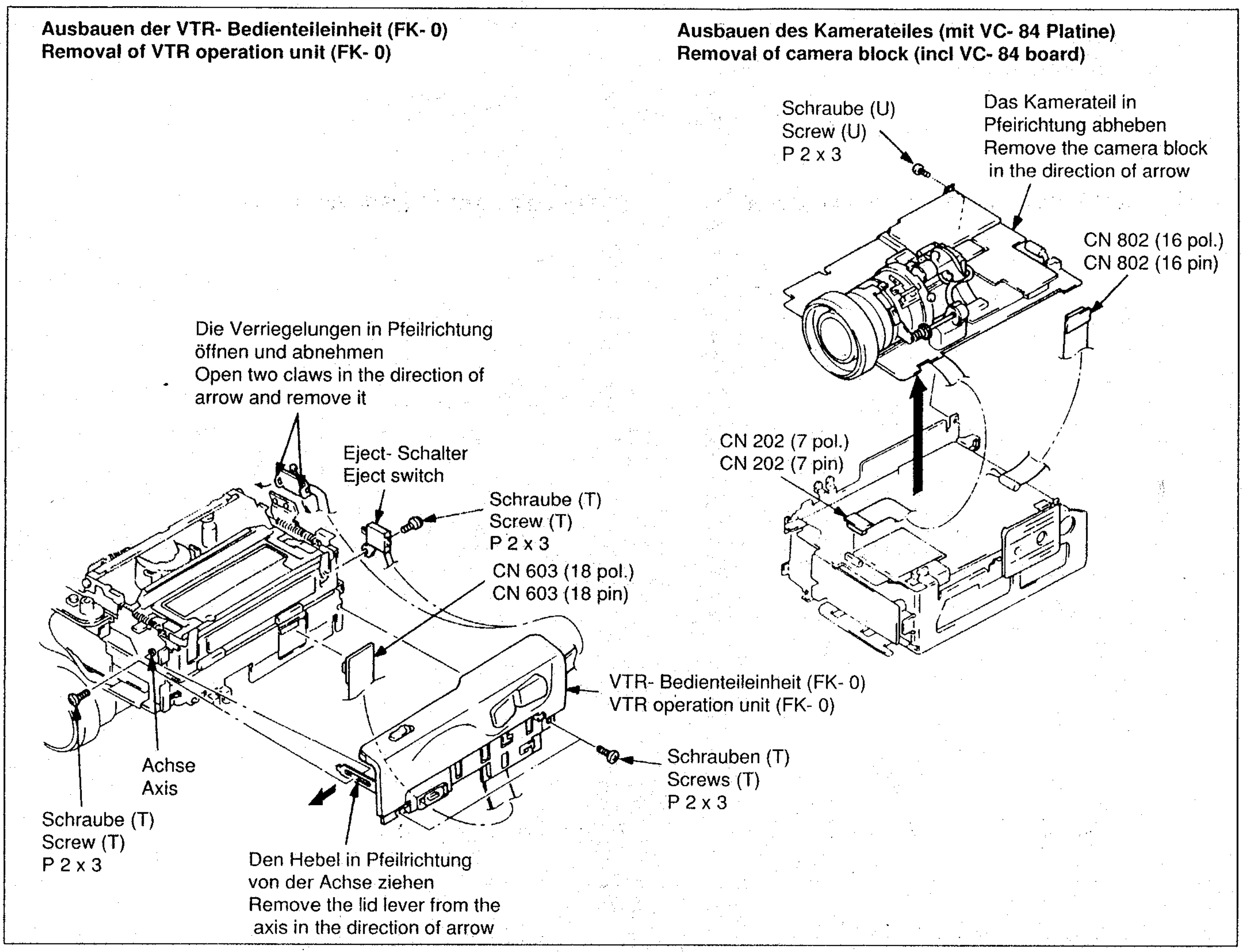
Fig. 7

Ausbauen der AV-Buchseneinheit (JK- 66)
Removal of AV jack unit (JK- 66)



JK- 66 Platine
JK- 66 Board
Die AU- 95 Platine entfernen
Remove the AU- 95 board
CN 203 (14 pol.)
CN 203 (14 pin)
Schraube (R)
Screw (R)
P 2 x 3
Schrauben (S)
Screws (S)
P 2 x 3
CN 201 (10 pol.)
CN 201 (10 pin)

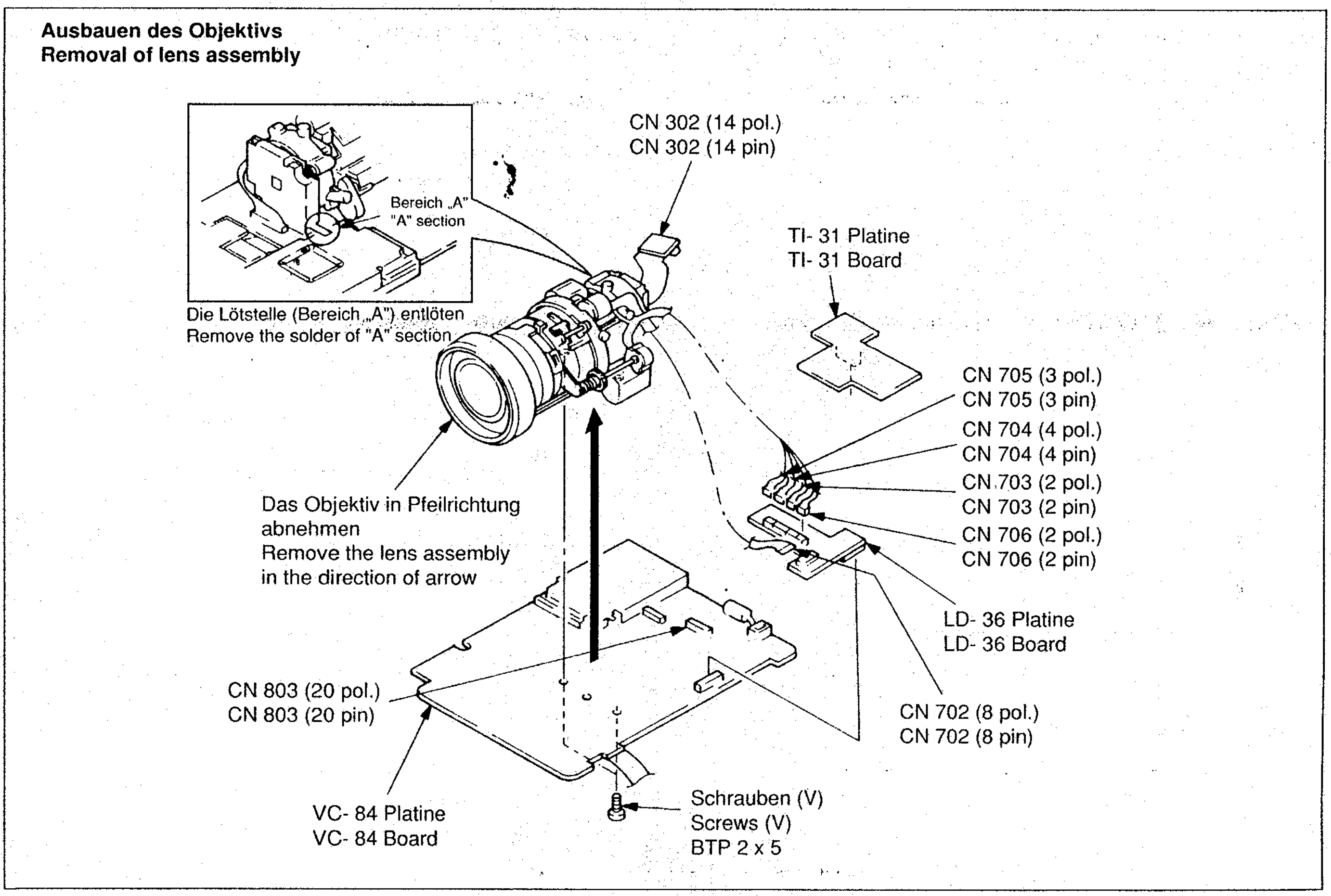
Fig. 8


Ausbauen der VTR- Bedienteileinheit (FK- 0)
Removal of VTR operation unit (FK- 0)

Ausbauen des Kamerateiles (mit VC- 84 Platine)
Removal of camera block (incl VC- 84 board)

Schraube (U)
Screw (U)
P 2 x 3
Das Kamerateil in Pfeirichtung abheben
Remove the camera block in the direction of arrow
CN 802 (16 pol.)
CN 802 (16 pin)
CN 202 (7 pol.)
CN 202 (7 pin)
Die Verriegelungen in Pfeilrichtung öffnen und abnehmen
Open two claws in the direction of arrow and remove it
Eject- Schalter
Eject switch
Schraube (T)
Screw (T)
P 2 x 3
CN 603 (18 pol.)
CN 603 (18 pin)
VTR- Bedienteileinheit (FK- 0)
VTR operation unit (FK- 0)
Schrauben (T)
Screws (T)
P 2 x 3
Achse
Axis
Schraube (T)
Screw (T)
P 2 x 3
Den Hebel in Pfeilrichtung von der Achse ziehen
Remove the lid lever from the axis in the direction of arrow

Fig. 9


Ausbauen des Objektivs
Removal of lens assembly

Bereich „A"
"A" section
Die Lötstelle (Bereich „A") entlöten
Remove the solder of "A" section
CN 302 (14 pol.)
CN 302 (14 pin)
TI- 31 Platine
TI- 31 Board
CN 705 (3 pol.)
CN 705 (3 pin)
CN 704 (4 pol.)
CN 704 (4 pin)
CN 703 (2 pol.)
CN 703 (2 pin)
CN 706 (2 pol.)
CN 706 (2 pin)
Das Objektiv in Pfeilrichtung abnehmen
Remove the lens assembly in the direction of arrow
LD- 36 Platine
LD- 36 Board
CN 803 (20 pol.)
CN 803 (20 pin)
CN 702 (8 pol.)
CN 702 (8 pin)
VC- 84 Platine
VC- 84 Board
Schrauben (V)
Screws (V)
BTP 2 x 5

Fig. 10

Ausbauen des MD- Rahmens
Removal of MD frame assembly

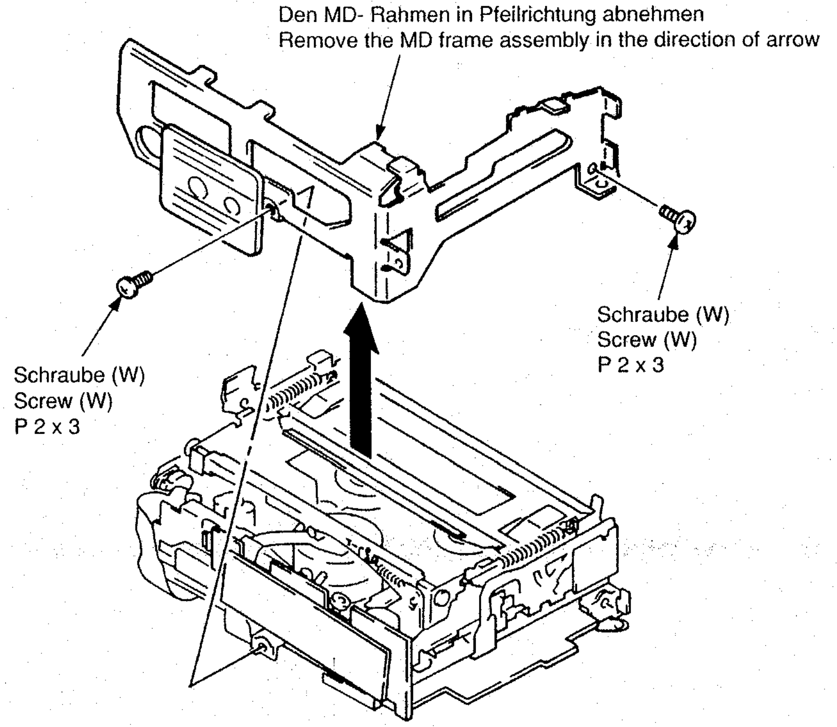

Den MD- Rahmen in Pfeilrichtung abnehmen
Remove the MD frame assembly in the direction of arrow
Schraube (W)
Screw (W)
P 2 x 3
Schraube (W)
Screw (W)
P 2 x 3

Fig. 11

Ausbauen der VS- 72 Platine
Removal of VS- 72 Board

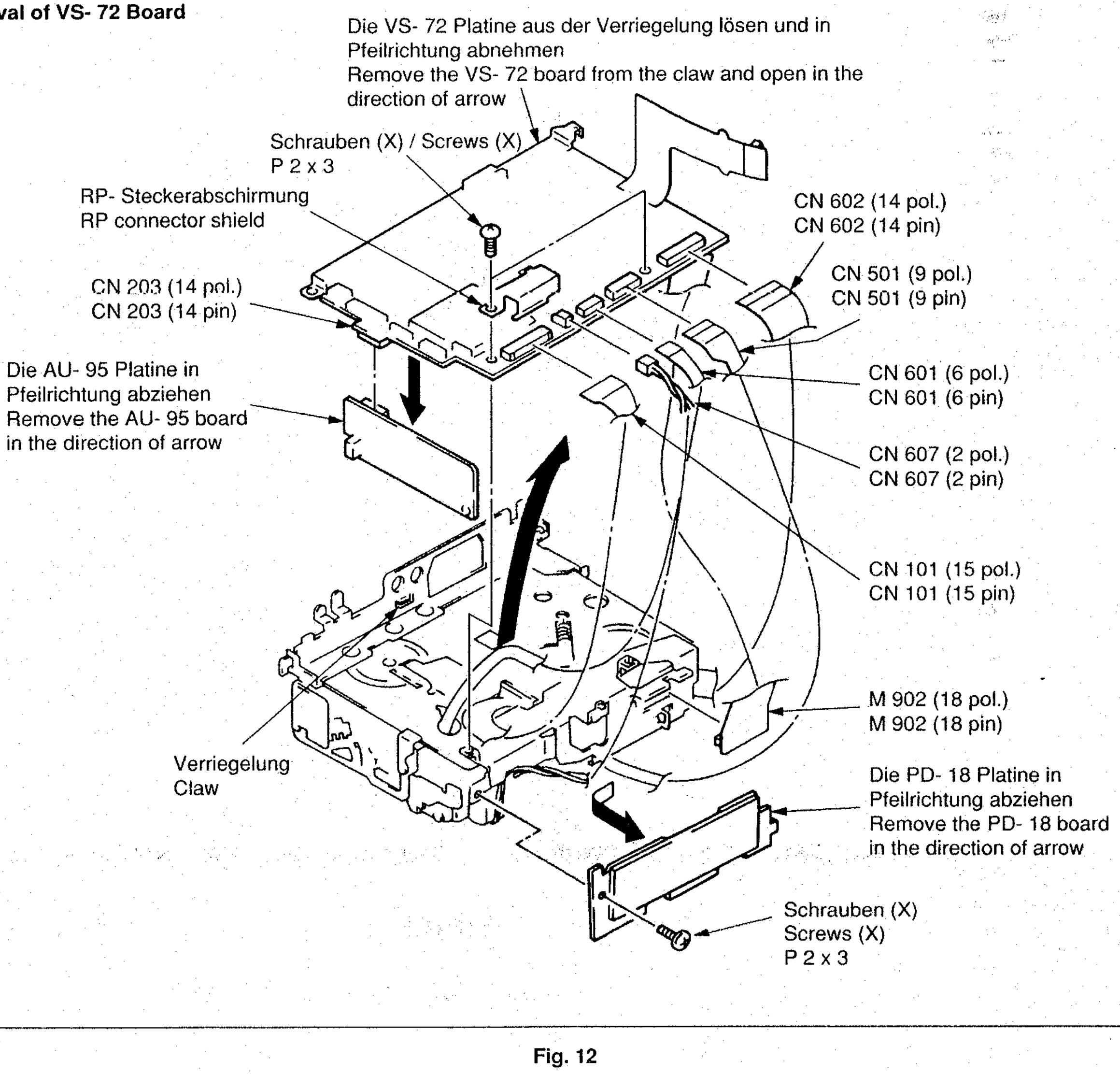

Die VS- 72 Platine aus der Verriegelung lösen und in Pfeilrichtung abnehmen
Remove the VS- 72 board from the claw and open in the direction of arrow
Schrauben (X) / Screws (X)
P 2 x 3
RP- Steckerabschirmung
RP connector shield
CN 203 (14 pol.)
CN 203 (14 pin)
Die AU- 95 Platine in Pfeilrichtung abziehen
Remove the AU- 95 board in the direction of arrow
CN 602 (14 pol.)
CN 602 (14 pin)
CN 501 (9 pol.)
CN 501 (9 pin)
CN 601 (6 pol.)
CN 601 (6 pin)
CN 607 (2 pol.)
CN 607 (2 pin)
CN 101 (15 pol.)
CN 101 (15 pin)
M 902 (18 pol.)
M 902 (18 pin)
Verriegelung
Claw
Die PD- 18 Platine in Pfeilrichtung abziehen
Remove the PD- 18 board in the direction of arrow
Schrauben (X)
Screws (X)
P 2 x 3

Fig. 12

Zerlegen der Suchereinheit
Disassembly of the EVF unit

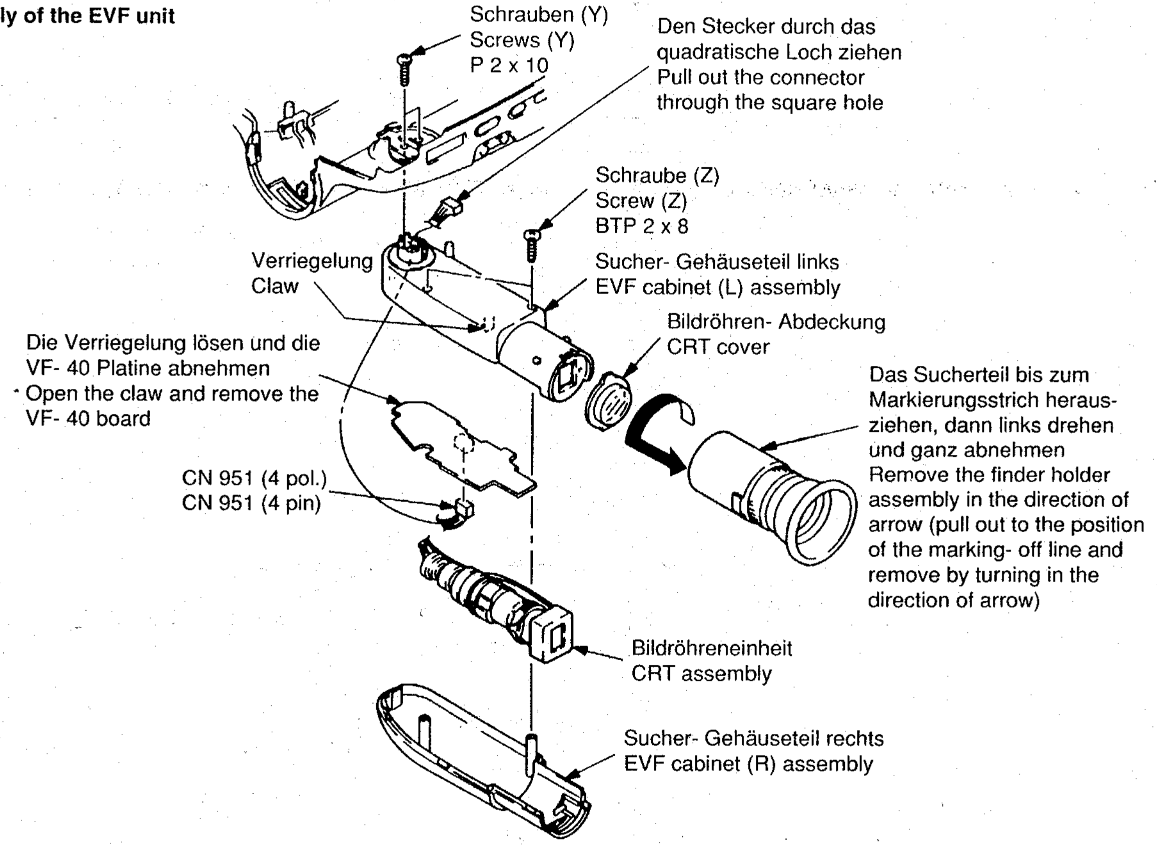

Schrauben (Y)
Screws (Y)
P 2 x 10
Den Stecker durch das quadratische Loch ziehen
Pull out the connector through the square hole
Schraube (Z)
Screw (Z)
BTP 2 x 8
Verriegelung
Claw
Sucher- Gehäuseteil links
EVF cabinet (L) assembly
Bildröhren- Abdeckung
CRT cover
Die Verriegelung lösen und die VF- 40 Platine abnehmen
Open the claw and remove the VF- 40 board
Das Sucherteil bis zum Markierungsstrich herausziehen, dann links drehen und ganz abnehmen
Remove the finder holder assembly in the direction of arrow (pull out to the position of the marking- off line and remove by turning in the direction of arrow)
CN 951 (4 pol.)
CN 951 (4 pin)
Bildröhreneinheit
CRT assembly
Sucher- Gehäuseteil rechts
EVF cabinet (R) assembly

Fig. 13

Ausbauen des Kassettenschachtes
Removal of cassette compartment

Hinweis:
Das Kassettenteil in die Eject- Stellung bringen (Kassettenschacht voll ausgefahren). Dazu den Betriebsartenwähler und die zugehörige Anschlußplatine verwenden. Die Betriebsart „USE" einstellen (siehe Betriebsartenfolie des Betriebsartenwählers) wie auf Seite 1- 12 beschrieben.

Note:
Set the unit in fully eject mode by using the mode selector and the belong conversion connector board. Set the mode selector to use mode (refer to page 1- 12, handling of mode selector).

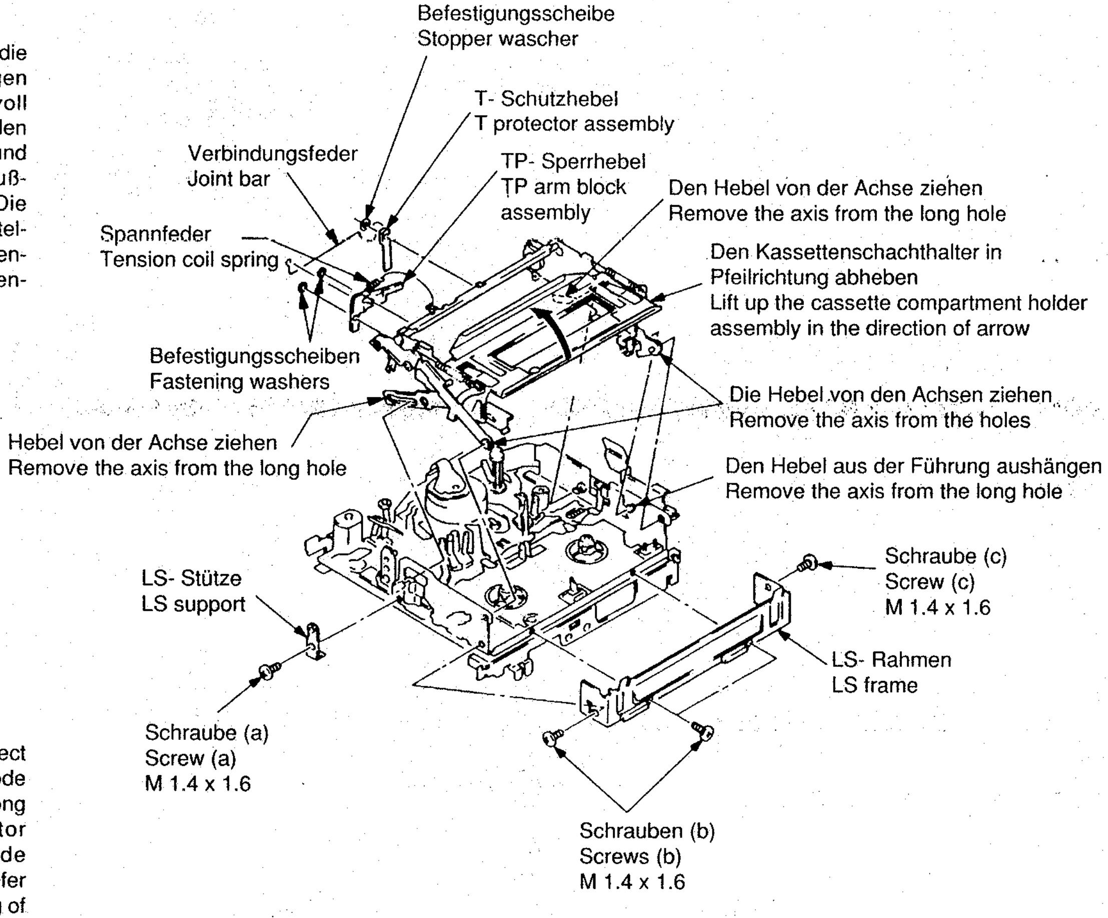

Befestigungsscheibe
Stopper wascher
T- Schutzhebel
T protector assembly
Verbindungsfeder
Joint bar
TP- Sperrhebel
TP arm block assembly
Den Hebel von der Achse ziehen
Remove the axis from the long hole
Spannfeder
Tension coil spring
Den Kassettenschachthalter in Pfeilrichtung abheben
Lift up the cassette compartment holder assembly in the direction of arrow
Befestigungsscheiben
Fastening washers
Die Hebel von den Achsen ziehen
Remove the axis from the holes
Hebel von der Achse ziehen
Remove the axis from the long hole
Den Hebel aus der Führung aushängen
Remove the axis from the long hole
Schraube (c)
Screw (c)
M 1.4 x 1.6
LS- Stütze
LS support
LS- Rahmen
LS frame
Schraube (a)
Screw (a)
M 1.4 x 1.6
Schrauben (b)
Screws (b)
M 1.4 x 1.6

Fig. 14

Handhabung des Betriebsartenwählers | Handling of Mode Selector

1. Den Stecker des Einfädelmotors und den Stecker FP 114 aus der VS- 72 Platine ziehen und in die Anschlußplatine einstecken (Fig.17).
2. Den MSW- Verbindungsstecker des Betriebsartenwählers in die Anschlußplatine stecken (Fig.17).
3. Die Betriebsartenfolie (Fig.15) auf den Betriebsartenwähler legen.
4. *Den Betriebsartenwähler* einschalten und mit den Betriebsarten- Wahltasten die gewünschte Betriebsart auswählen (z.B. „USE").
5. Während der Betriebsartenwahl leuchtet die Anzeige „BLANK" wenn keine andere Betriebsart eingestellt ist.

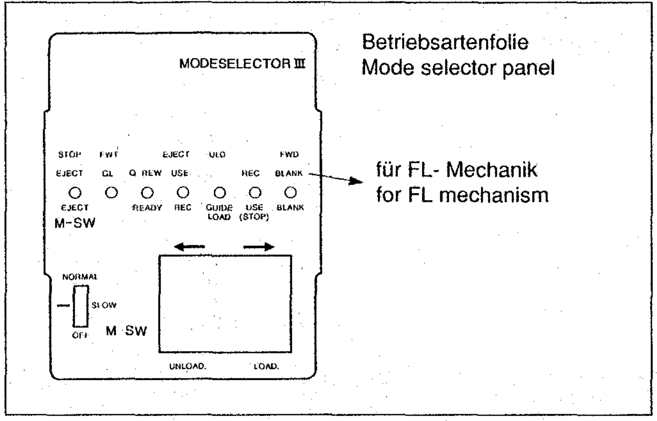

MODESELECTOR Ⅲ
STOP
FWT
EJECT
ULO
FWD
EJECT
CL
Q REW
USE
REC
BLANK
EJECT
READY
REC
GUIDE LOAD
USE (STOP)
BLANK
M-SW
NORMAL
SLOW
OFF
M SW
UNLOAD.
LOAD.
Betriebsartenfolie
Mode selector panel
für FL- Mechanik
for FL mechanism

Fig. 15

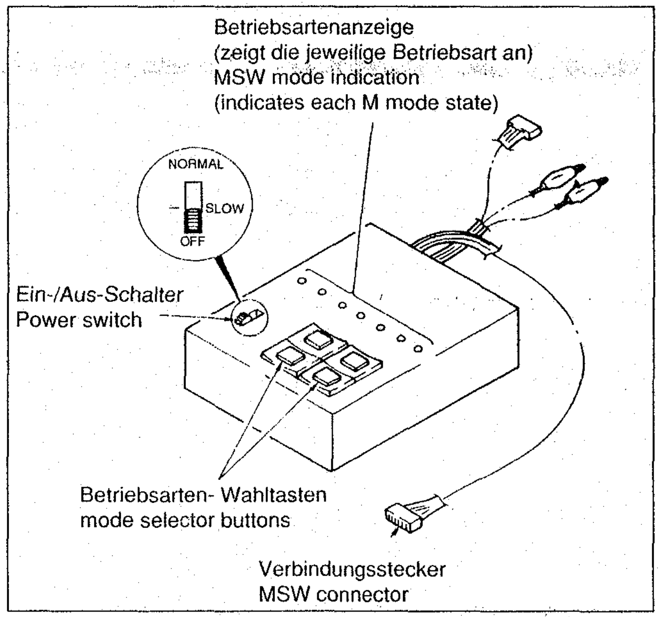

Betriebsartenanzeige
(zeigt die jeweilige Betriebsart an)
MSW mode indication
(indicates each M mode state)
NORMAL
SLOW
OFF
Ein-/Aus-Schalter
Power switch
Betriebsarten- Wahltasten
mode selector buttons
Verbindungsstecker
MSW connector

Fig. 16

1. Remove the FP- 114 connector and loading motor connector and insert them into the conversion connector (Fig.17).
2. Insert the MSW connector of the mode selector into the conversion connector (Fig.17).
3. Mount the mode selector panel (Fig.15) to the mode selector.
4. Switch on the mode selector and select the mode with the mode selector buttons (for example: "USE").
5. During mode selection,"Blank" lights up when no mode is being selected

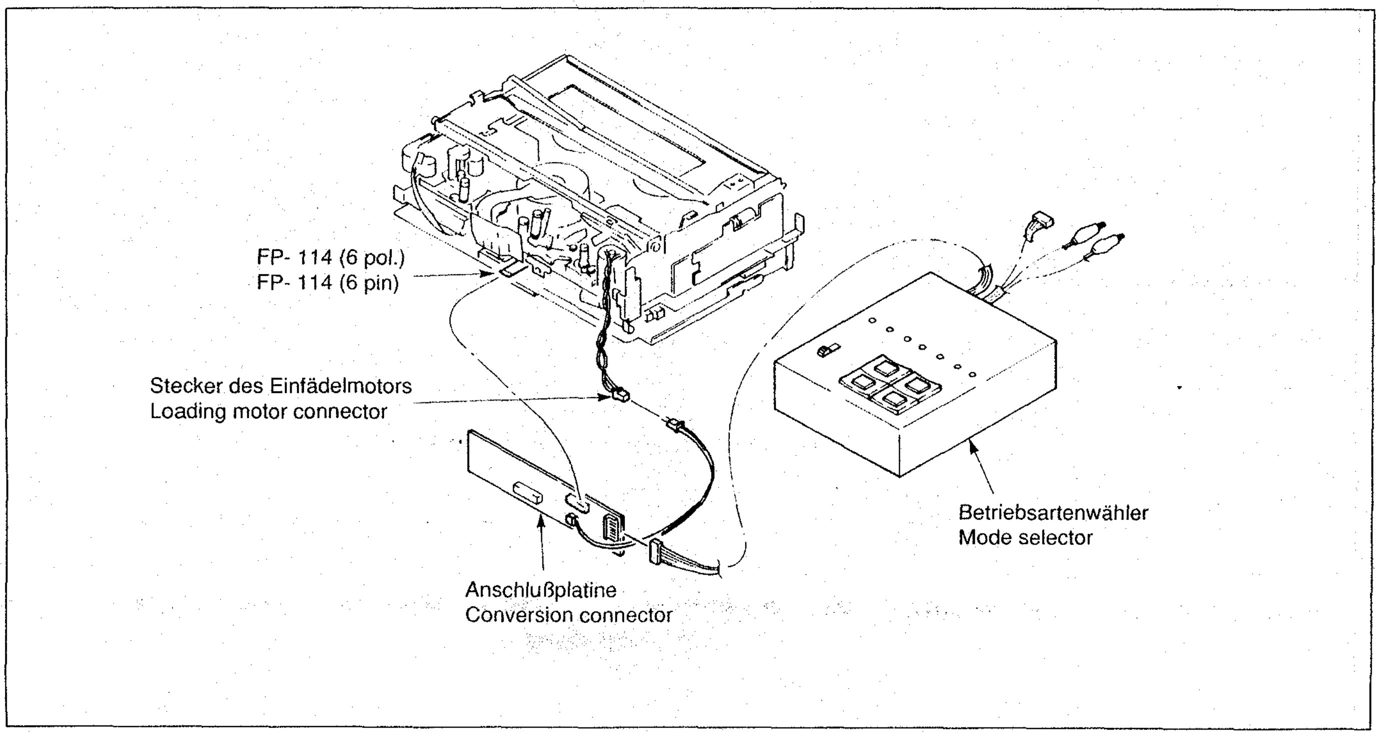

FP- 114 (6 pol.)
FP- 114 (6 pin)
Stecker des Einfädelmotors
Loading motor connector
Anschlußplatine
Conversion connector
Betriebsartenwähler
Mode selector

Fig. 17

Handhabung von CHIP-Bauteilen

Nachfolgend wird der Umgang mit CHIP-Bauteilen beim Service beschrieben.

1. Aus- und Einbauen von Chip-Bauteilen

Hinweise:
Nur einen Niedervoltlötkolben mit Temperaturregelung verwenden.
Die Löttemperatur sollte ca. 240°C betragen, max. 300°C.

Die Lötzeit so kurz wie möglich halten.
Belassen Sie CHIP-Bauteile bis zur Bearbeitung in der Originalverpackung. Damit wird die Oxidation der Stirnkontakte vermieden.
Die CHIP-Bauteile nicht mit der bloßen Hand berühren.

2. Auslöten von Chips

a. Die Chip-Lötstelle mit Sauglitze oder Zinnabsauger säubern (Fig. 1).
b. Die CHIP-Enden, bzw. das komplette CHIP-Bauteil erwärmen. Den CHIP von der Klebung ohne Kraftaufwand abdrehen, damit unter dem CHIP liegende Leiterbahnen nicht abgerissen werden (Fig. 2).

ACHTUNG! Den ausgelöteten CHIP nicht wiederverwenden! Die leitende Schicht kann ausgebrochen sein.

Precautions in Replacing the CHIP

Please, follow the instructions below when carrying out repair works.

1. Soldering and Unsoldering of Chip Components

Notes:
Use only low-voltage soldering irons with temperature control.
Permissible soldering temperatures are approx 240°C up to max. 300°C.
Keep the soldering period as short as possible.
Keep the CHIP components in their original packages until they are used to avoid oxidation of the end contacts.
Do not touch CHIP components with bare hands.

2. Unsoldering of Chips

a. Clean the CHIP soldering point with a solder wick (Fig. 1).
b. Warm up the ends of the CHIP or the whole CHIP component and remove the CHIP from the adhesive by turning it without application of force so that the tracks beneath the CHIP do not break (Fig. 2).

ATTENTION! Do not use unsoldered CHIPS any more because the conductive layer may be broken.

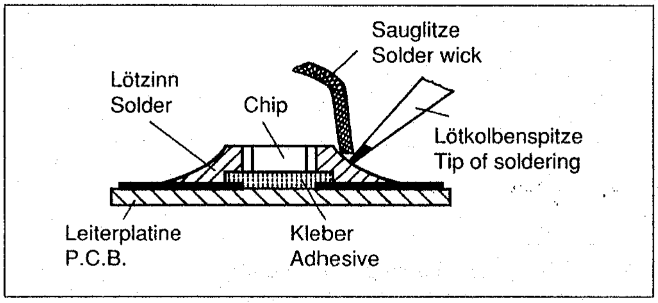

Sauglitze
Solder wick
Lötzinn
Solder
Chip
Lötkolbenspitze
Tip of soldering
Leiterplatine
P.C.B.
Kleber
Adhesive

Fig. 1

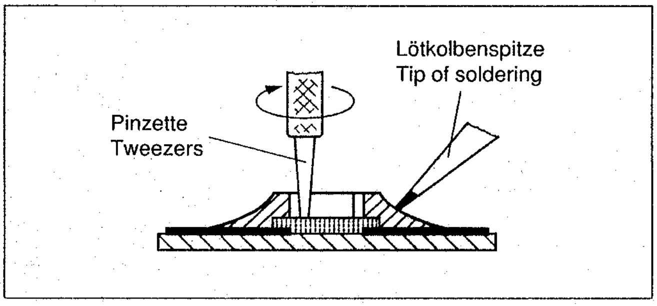

Lötkolbenspitze
Tip of soldering
Pinzette
Tweezers

Fig. 2

3. Einlöten von Chips

a. Den Lötpunkt von Lötrückständen säubern. Eine Lötperle anbringen (Fig. 3).
b. Den CHIP an der Lötstelle ansetzen, zentrieren und anlöten. Den CHIP nur am Kontaktende mit der Pinzette anfassen (Fig. 4).
c. Die freie Seite löten, und nach dem Erkalten die erste Lötstelle nochmals nachlöten (Fig 5).

3. Soldering of Chips

a. Remove possible residues from the soldering point. Then apply a solder bead (Fig. 3).
b. Put the CHIP onto the soldering point, then center and fix it. Use tweezers to hold the CHIP only at the end of the contact (Fig. 4).
c. Solder the free end of the CHIP and resolder the first soldering point after it has cooled (Fig. 5).

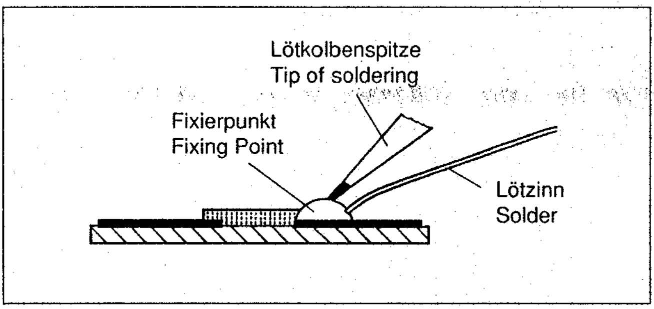

Lötkolbenspitze
Tip of soldering
Fixierpunkt
Fixing Point
Lötzinn
Solder

Fig. 3

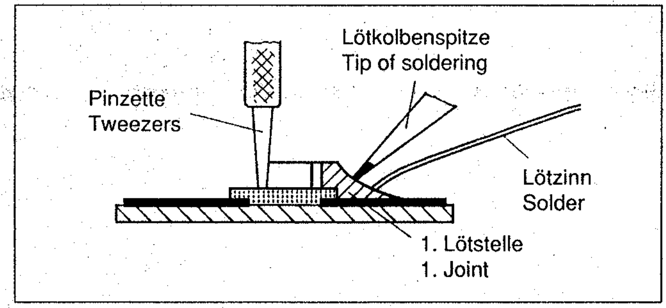

Lötkolbenspitze
Tip of soldering
Pinzette
Tweezers
Lötzinn
Solder
1. Lötstelle
1. Joint

Fig. 4

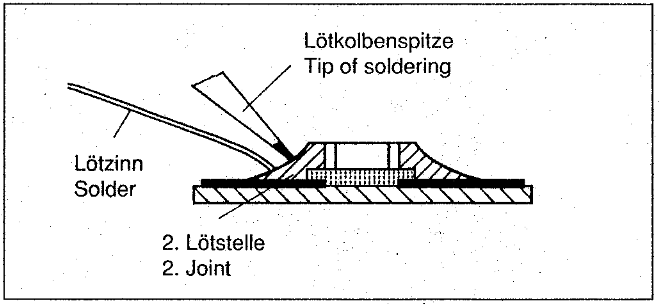

Lötkolbenspitze
Tip of soldering
Lötzinn
Solder
2. Lötstelle
2. Joint

Fig. 5

Hinweise

Diese allgemeinen Hinweise gelten für alle Schaltbilder und Platinen.
(Falls erforderlich befinden sich zusätzliche Hinweise neben der jeweiligen Schaltung.)

Für alle Platinen:

- ○— : Kennzeichnet eine Drahtverbindung auf der Bestückungsseite.
- ●— : Kennzeichnet eine Drahtverbindung auf der Lötseite.
- ● : Bohrung.
- ▩ : Leiterbahndarstellung der Vorderseite.
- ▨ : Leiterbahndarstellung der Rückseite
- ❶ : Zahlen im Kreis kennzeichnen Oszillogramme.

Wichtig:

Leiterbahnseite (Lötseite):	Die Teile auf der Leiterbahnseite sind auch auf der Leiterbahnseite bezeichnet.
Bauteilseite (Best.-seite):	Die Teile auf der Bestückungsseite sind auch auf der Bestückungsseite bezeichnet.

Bei Mehrschicht- Leiterplatten sindt nur die Leiterbahnseite und die Bauteilseite abgebildet. Die inneren Leiterbahnen sind nicht dargestellt. Bei Platinenbrüchen sind diese Platinen nicht reparierbar

Für alle Schaltbilder:

- Wichtig beim Wechseln von Chipteilen:
  Speziell die Chip-Tantal-Kondensatoren nicht zu lange erhitzen, um eine Beschädigung zu vermeiden.
- Die Wertangabe aller Widerstände ohne Bezeichnung ist Ohm 1/4 W, für Chip-Widerstände ohne Bezeichnung gilt 1/10 W.
  kΩ = 1000 Ω, MΩ = 1000 kΩ.
- Die Wertangabe aller Kondensatoren ohne Bez. ist µF.
  pF = µµF.
  Spannungsangaben unter 50 V werden nur bei Elektrolyt- oder Tantal-Kondensatoren gemacht.
- Alle veränderbaren oder einstellbaren Widerstände haben linearen Regelbereich (Kurve B).
- : Nichtbrennbare Widerstände
- : Sicherheitswiderstände
- □ : Platinenbezeichnung.
- ⬚ : Einsteller für Reparatur.
- — : Betriebsspannungsverlauf +
- ⇨ : Ein / Ausgang der (+, -) Betriebsspannung.
- ❶ : Zahlen im Kreis kennzeichnen Oszillogramme.
- Die Gleichspannungsangaben sind vom Meßpunkt auf Masse bezogen.
- Signalmessungen mit Farbbalkensignal am Eingang.
- Gleichspannungsmessungen mit Digitalvoltmeter (DC 10 MΩ).
- Für die Spannungsangaben gilt die übliche Toleranz von 10 %.
- ⚠ : Sicherheitsbauelement (muß durch Originalteil ersetzt werden).

Notes

This notes are common for printed wiring boards and schematic diagrams.
(In addition to this, the necessary note is printed in each block.)

For printed wiring boards:

- ○— : Indicated a lead wire mounted on the component side.
- ●— : Indicated a lead wire mounted on the conductor side.
- ● : Through hole.
- ▩ : Pattern from the side which enables seeing.
- ▨ : Pattern of the rear side.
- ❶ : Circled numbers refer to waveforms.

Caution:

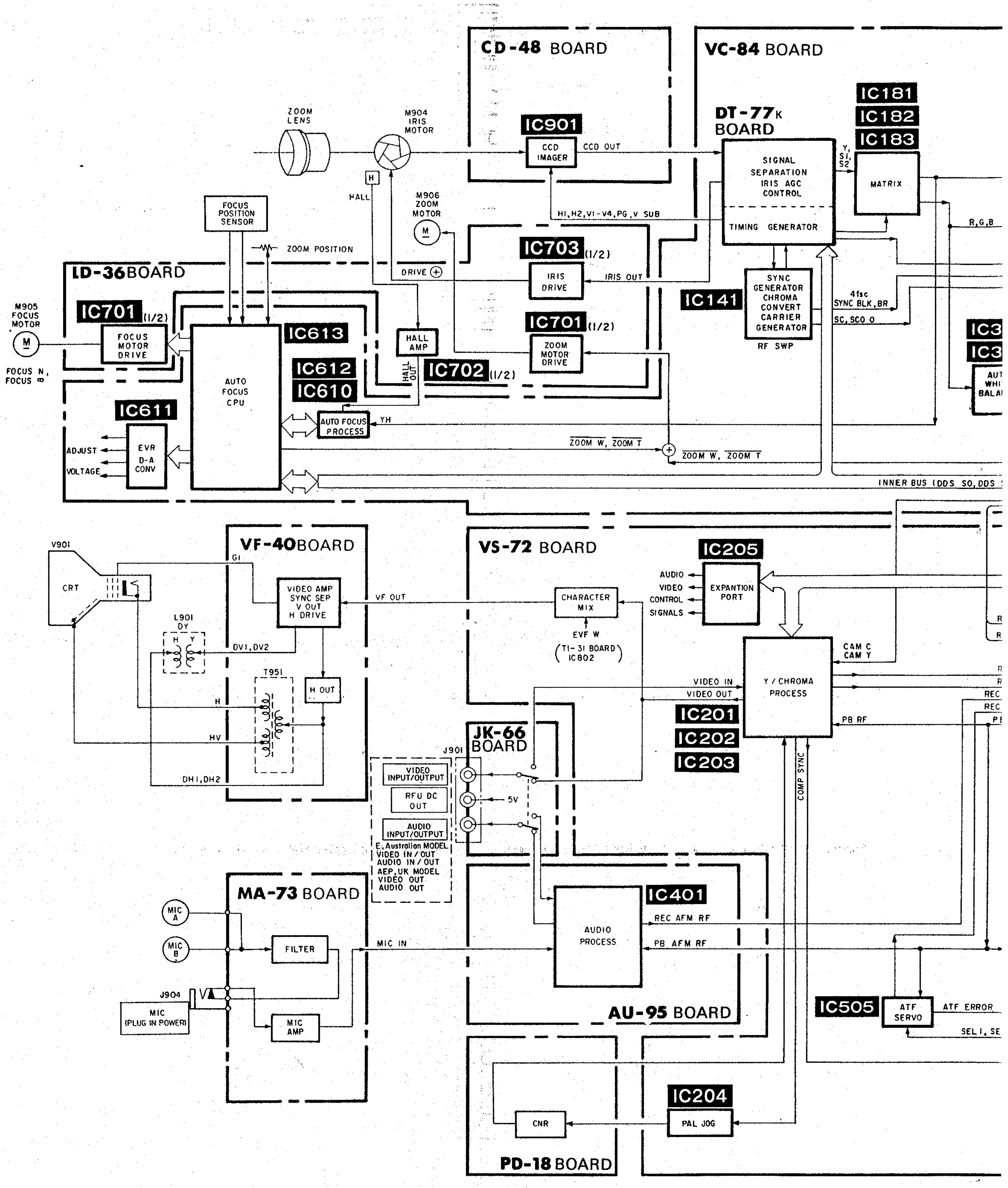
Pattern face side (Conductor side):	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side (Component side):	Parts on the parts face side seen from the parts face are indicated.

By multi layer wiring boards, the inner two layers patterns are not indicated. When the multi layer wiring board is broken, it is not possible to repair the multi layer wiring board.

For schematic diagrams:

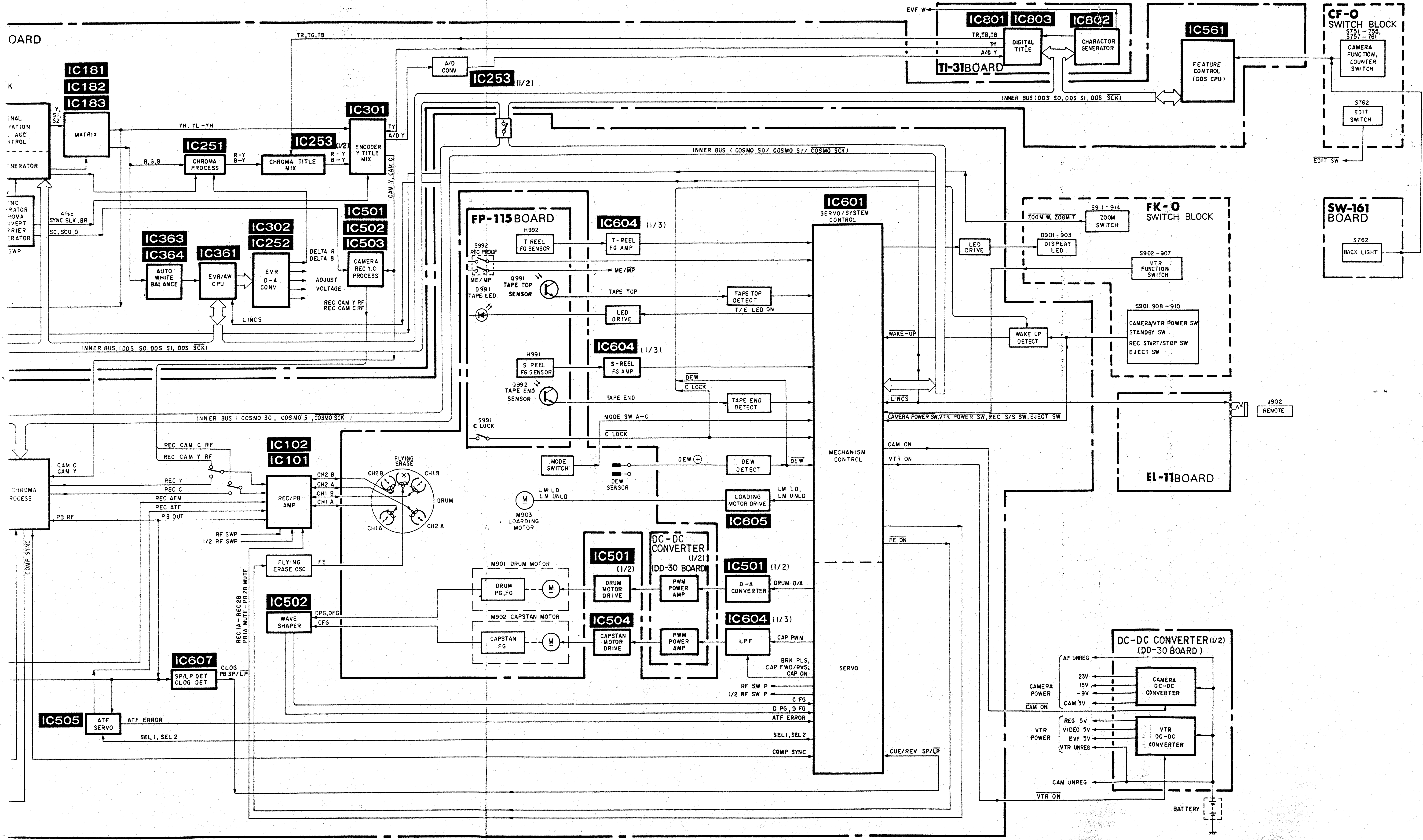
- Caution when replacing chip parts:
  Be careful not to heat the minuts side of tantalum capacitor, because it is damaged by the heat.
- All resistors are in ohm 1/4 W unless otherwise noted.
  Chip resistors are 1/10 W unless otherwise noted.
  kΩ = 1000 Ω, MΩ = 1000 kΩ.
- All capacitors are in µF unless otherwise noted.
  pF = µµF.
  50 V or less are not indicated exept for electrolytics and tantalums.
- All variable and adjustable resistors have characteristics curve B, unless otherwise noted.
- : Nonflammable resistors
- : Fusible resistors
- □ : Panel designation.
- ⬚ : Adjustment for repeair.
- — : B + Line.
- ⇨ : IN / OUT direction of (+, -) B Line.
- ❶ : Circled numbers refer to waveforms.
- Voltages are DC between ground and measurement points.
- Readings are taken with a color-bar signal input.
- Readings are taken with a digital voltmeter (DC 10 MΩ).
- Voltage variations may be noted due to normal production tolerances (10 %).
- ⚠ : Security component (Must be replaced by original part)

Gesamt-Blockschaltbild
Overall Block Diagram



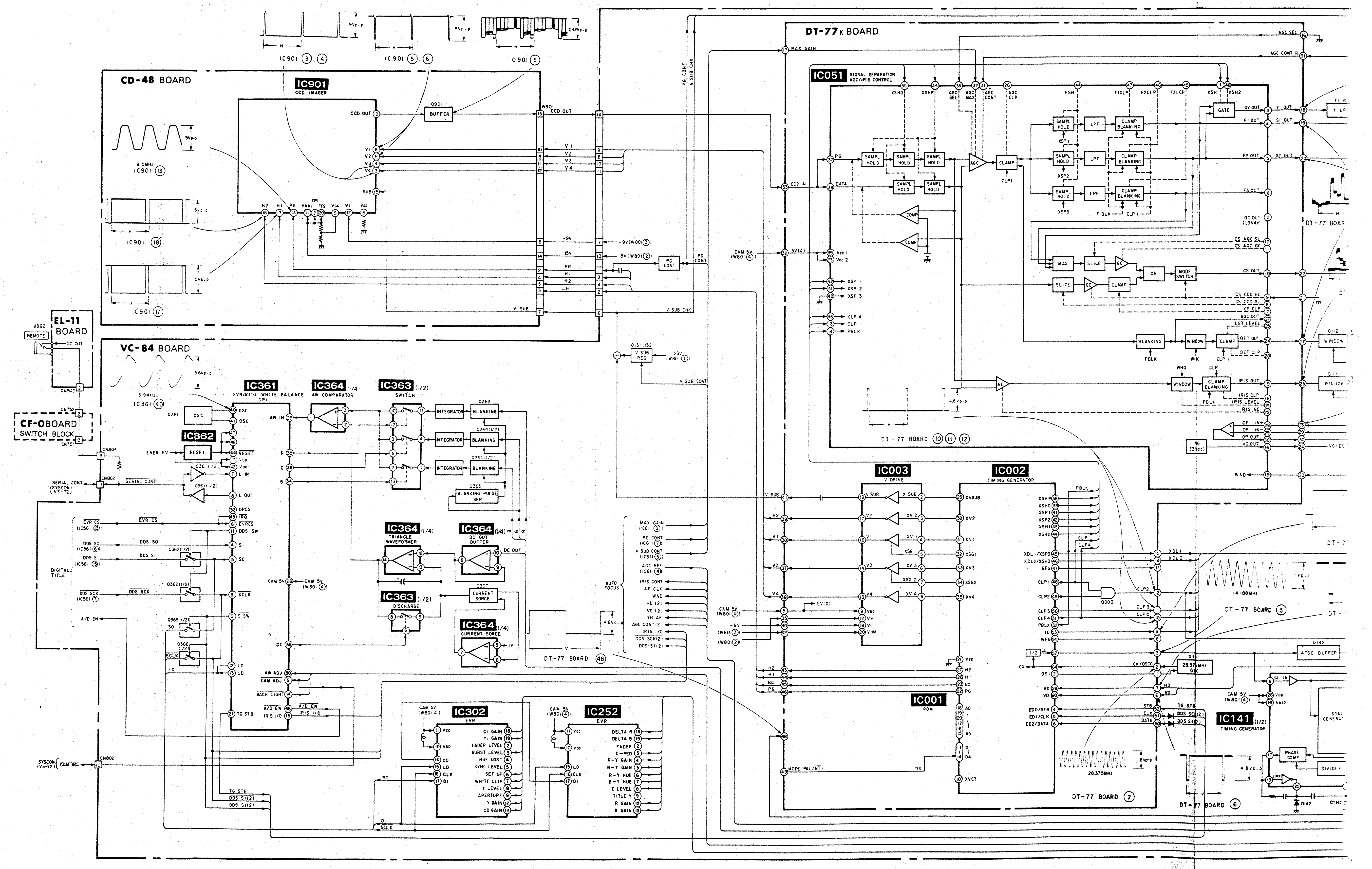
CD-48 BOARD
VC-84 BOARD
ZOOM LENS
M904 IRIS MOTOR
IC901
CCD IMAGER
CCD OUT
DT-77K BOARD
IC181
IC182
IC183
SIGNAL SEPARATION IRIS AGC CONTROL
TIMING GENERATOR
Y, S1, S2
MATRIX
H
HALL
FOCUS POSITION SENSOR
M906 ZOOM MOTOR
H1,H2,V1-V4,PG,V SUB
R,G,B
ZOOM POSITION
IC703 (1/2)
LD-36 BOARD
DRIVE (+)
IRIS DRIVE
IRIS OUT
SYNC GENERATOR CHROMA CONVERT CARRIER GENERATOR
IC141
4fsc SYNC BLK,BR
SC,SCO 0
RF SWP
M905 FOCUS MOTOR
IC701 (1/2)
FOCUS MOTOR DRIVE
IC613
HALL AMP
IC701 (1/2)
ZOOM MOTOR DRIVE
IC3
IC3
AUT WHI BALA
FOCUS N, FOCUS ∞
IC612
IC610
HALL OUT
IC702 (1/2)
AUTO FOCUS CPU
IC611
AUTO FOCUS PROCESS
YH
ADJUST
VOLTAGE
EVR D-A CONV
ZOOM W, ZOOM T
ZOOM W, ZOOM T
INNER BUS (DDS SO,DDS
V901
CRT
VF-40 BOARD
G1
VIDEO AMP SYNC SEP V OUT H DRIVE
VF OUT
VS-72 BOARD
IC205
AUDIO
VIDEO
CONTROL
SIGNALS
EXPANTION PORT
CHARACTER MIX
EVF W
(T1-31 BOARD IC802)
L901 DY
H Y
DV1,DV2
T951
H OUT
H
HV
DH1,DH2
CAM C
CAM Y
Y / CHROMA PROCESS
VIDEO IN
VIDEO OUT
IC201
IC202
IC203
PB RF
REC
REC
R
R
R
R
P
COMP SYNC
JK-66 BOARD
J901
VIDEO INPUT/OUTPUT
RFU DC OUT
5V
AUDIO INPUT/OUTPUT
E, Australian MODEL VIDEO IN / OUT AUDIO IN / OUT
AEP, UK MODEL VIDEO OUT AUDIO OUT
MA-73 BOARD
MIC A
MIC B
FILTER
MIC IN
IC401
AUDIO PROCESS
REC AFM RF
PB AFM RF
J904
MIC (PLUG IN POWER)
MIC AMP
AU-95 BOARD
IC505
ATF SERVO
ATF ERROR
SEL 1, SE
IC204
CNR
PAL JOG
PD-18 BOARD

Gesamt-Blockschaltbild
Overall Block Diagram

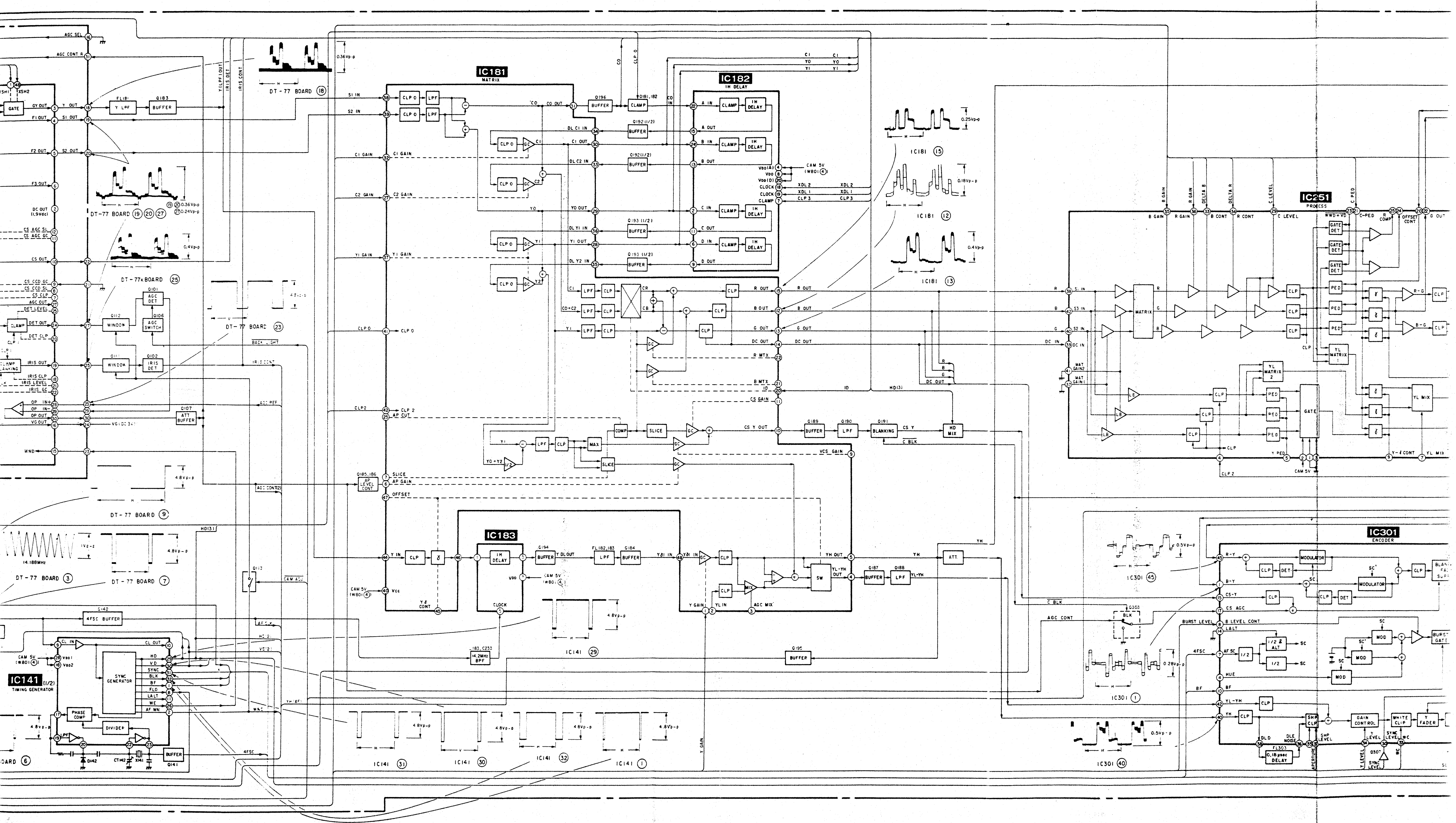


OARD
IC181
IC182
IC183
MATRIX
YH, YL-YH
R,G,B
IC251
CHROMA PROCESS
R-Y
B-Y
CHROMA TITLE MIX
IC253 (1/2)
IC301
ENCODER Y TITLE MIX
TY
A/D Y
CAM Y, CAM C
TR,TG,TB
A/D CONV
IC253 (1/2)
4fsc SYNC BLK, BR
SC, SCO 0
GENERATOR
IC363
IC364
AUTO WHITE BALANCE
IC361
EVR/AW CPU
IC302
IC252
EVR D-A CONV
DELTA R
DELTA B
ADJUST VOLTAGE
IC501
IC502
IC503
CAMERA REC Y.C PROCESS
REC CAM Y RF
REC CAM C RF
LINCS
INNER BUS (DDS SO, DDS SI, DDS SCK)
INNER BUS (COSMO SO, COSMO SI, COSMO SCK)
EVF W
IC801
IC803
IC802
DIGITAL TITLE
CHARACTOR GENERATOR
TI-31 BOARD
IC561
FEATURE CONTROL (DDS CPU)
CF-0 SWITCH BLOCK
S751-755, S757-761
CAMERA FUNCTION, COUNTER SWITCH
S762
EDIT SWITCH
EDIT SW
SW-161 BOARD
S762
BACK LIGHT
FK-0 SWITCH BLOCK
S911-914
ZOOM W, ZOOM T
ZOOM SWITCH
D901-903
DISPLAY LED
LED DRIVE
S902-907
VTR FUNCTION SWITCH
S901, 908-910
CAMERA/VTR POWER SW
STANDBY SW
REC START/STOP SW
EJECT SW
WAKE UP DETECT
WAKE-UP
FP-115 BOARD
H992
T REEL FG SENSOR
IC604 (1/3)
T-REEL FG AMP
S992 REC PROOF
ME/MP
Q991 TAPE TOP SENSOR
D991 TAPE LED
TAPE TOP
TAPE TOP DETECT
T/E LED ON
LED DRIVE
H991
S REEL FG SENSOR
IC604 (1/3)
S-REEL FG AMP
Q992 TAPE END SENSOR
TAPE END
TAPE END DETECT
S991 C LOCK
MODE SW A-C
C LOCK
DEW
IC601
SERVO/SYSTEM CONTROL
MECHANISM CONTROL
SERVO
LINCS
CAMERA POWER SW, VTR POWER SW, REC S/S SW, EJECT SW
J902
REMOTE
EL-11 BOARD
CAM ON
VTR ON
FE ON
MODE SWITCH
DEW SENSOR
DEW DETECT
M903 LOADING MOTOR
LM LD
LM UNLD
LOADING MOTOR DRIVE
IC605
CHROMA PROCESS
CAM C
CAM Y
REC CAM C RF
REC CAM Y RF
REC Y
REC C
REC AFM
REC ATF
PB RF
PB OUT
IC102
IC101
REC/PB AMP
CH2 B
CH2 A
CH1 B
CH1 A
FLYING ERASE
DRUM
RF SWP
1/2 RF SWP
FLYING ERASE OSC
FE
COMP SYNC
REC 1A-REC 2B
PB 1A MUTE-PB 2B MUTE
IC502
WAVE SHAPER
DPG, DFG
CFG
M901 DRUM MOTOR
DRUM PG, FG
IC501 (1/2)
DRUM MOTOR DRIVE
DC-DC CONVERTER (1/2) (DD-30 BOARD)
PWM POWER AMP
IC501 (1/2)
D-A CONVERTER
DRUM D/A
M902 CAPSTAN MOTOR
CAPSTAN FG
IC504
CAPSTAN MOTOR DRIVE
IC604 (1/3)
LPF
CAP PWM
BRK PLS, CAP FWD/RVS, CAP ON
RF SW P
1/2 RF SW P
C FG
D PG, D FG
ATF ERROR
SEL1, SEL2
COMP SYNC
CUE/REV SP/LP
IC607
SP/LP DET CLOG DET
CLOG
PB SP/LP
IC505
ATF SERVO
ATF ERROR
SEL1, SEL2
DC-DC CONVERTER (1/2) (DD-30 BOARD)
AF UNREG
CAMERA POWER
23V
15V
-9V
CAM 5V
CAM ON
CAMERA DC-DC CONVERTER
VTR POWER
REG 5V
VIDEO 5V
EVF 5V
VTR UNREG
VTR DC-DC CONVERTER
CAM UNREG
VTR ON
BATTERY

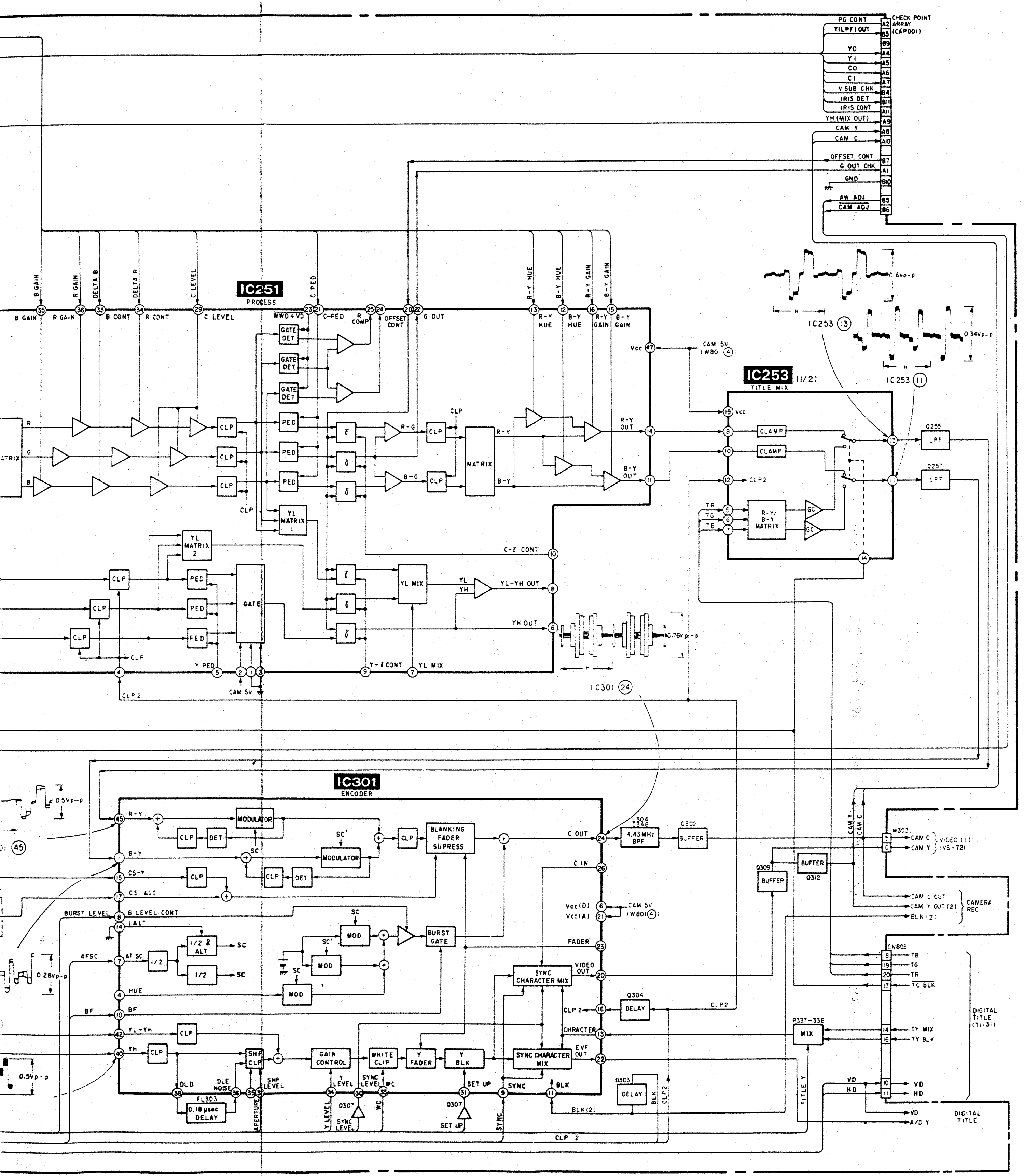
Blockschaltbild Kamera
Camera Block Diagram


CD-48 BOARD
IC901
CCD IMAGER
Q901
BUFFER
CCD OUT
W901
IC901 ③, ④
IC901 ⑤, ⑥
Q901 ⑤
9.5MHz
IC901 ⑬
IC901 ⑱
IC901 ⑰
EL-11 BOARD
J902
REMOTE
CF-0 BOARD
SWITCH BLOCK
VC-84 BOARD
3.9MHz
IC361 ㊵
IC361
EVR/AUTO WHITE BALANCE CPU
IC362
RESET
EVER 5V
IC364 (1/4)
AW COMPARATOR
IC363 (1/2)
SWITCH
INTEGRATOR
BLANKING
BLANKING PULSE SEP
IC364 (1/4)
TRIANGLE WAVEFORMER
IC364 (1/4)
DC OUT BUFFER
IC363 (1/2)
DISCHARGE
CURRENT SOURCE
IC364 (1/4)
CURRENT SORCE
IC302
EVR
IC252
EVR
SERIAL CONT (SYSCON) (VS-72)
DIGITAL TITLE
A/D EN
SYSCON (VS-72)
CAM ADJ
DT-77 BOARD ㊽
AUTO FOCUS
V SUB REG
DT-77K BOARD
IC051
SIGNAL SEPARATION AGC/IRIS CONTROL
SAMPL HOLD
AGC
CLAMP
LPF
CLAMP BLANKING
GATE
COMP
MAX
SLICE
OR
MODE SWITCH
WINDOW
DT-77 BOARD ⑩ ⑪ ⑫
IC003
V DRIVE
IC002
TIMING GENERATOR
IC001
ROM
Q003
X101
28.375MHz OSC
14.188MHz
DT-77 BOARD ③
28.375MHz
DT-77 BOARD ②
DT-77 BOARD ⑥
IC141 (1/2)
TIMING GENERATOR
Q142
4FSC BUFFER
PHASE COMP
DIVIDER
D142
Y OUT
S1 OUT
S2 OUT
F1 OUT
F2 OUT
F3 OUT
CS OUT
DET OUT
IRIS OUT
WND

Blockschaltbil
Camera Block

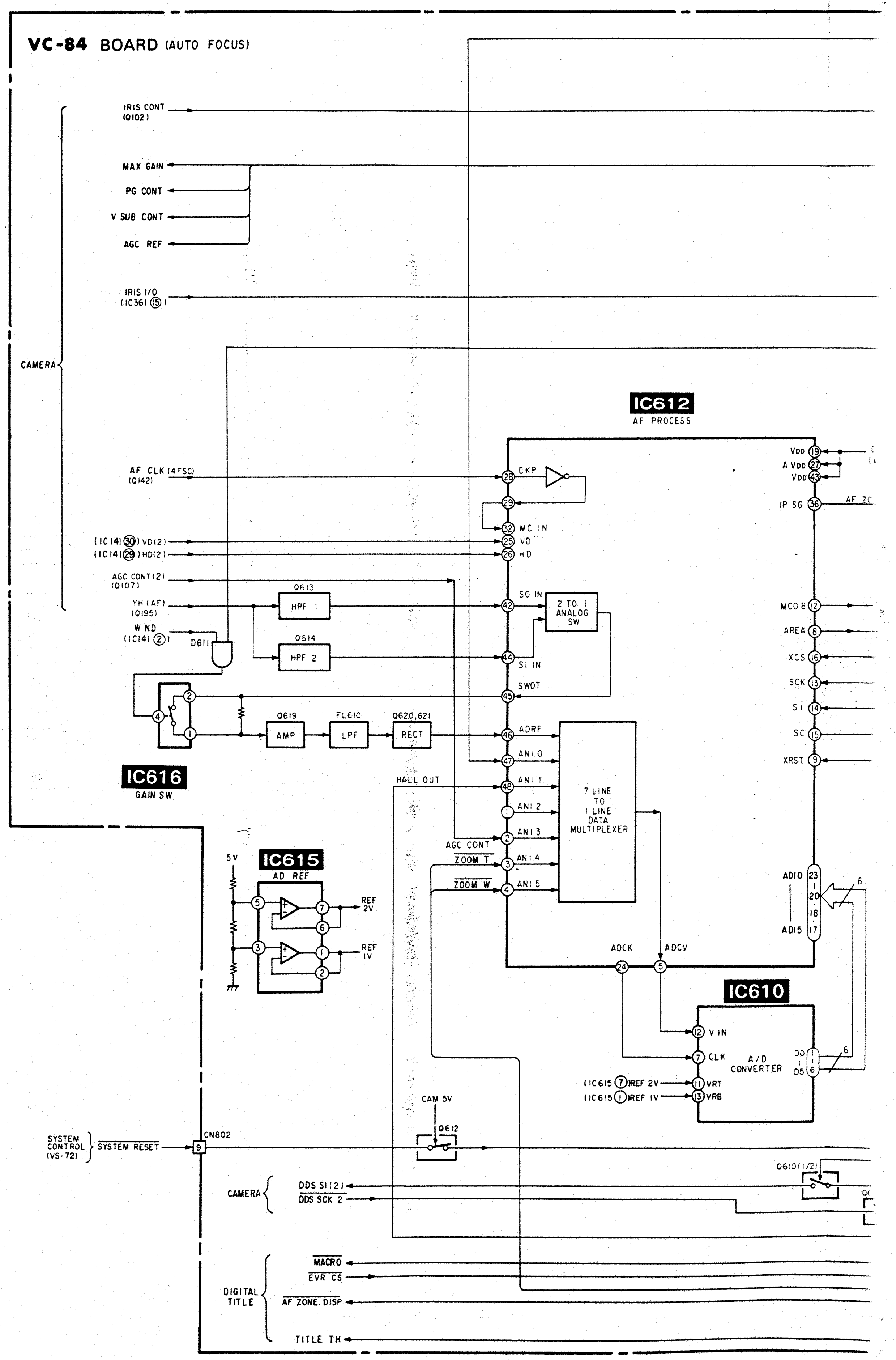

IC181
MATRIX
IC182
1H DELAY
IC183
IC251
PROCESS
IC301
ENCODER
IC141 (1/2)
TIMING GENERATOR
SYNC GENERATOR
PHASE COMP
DIVIDER
4FSC BUFFER
DT-77 BOARD ⑱
DT-77 BOARD ⑲ ⑳ ㉗
DT-77K BOARD ㉕
DT-77 BOARD ㉓
DT-77 BOARD ⑨
DT-77 BOARD ③
DT-77 BOARD ⑦
IC181 ⑮
IC181 ⑫
IC181 ⑬
IC141 ㉙
IC141 ㉛
IC141 ㉚
IC141 ㉜
IC141 ①
IC301 ㊺
IC301 ①
IC301 ㊵
S1 IN
S2 IN
C1 GAIN
C2 GAIN
Y1 GAIN
CLP 0
CLP 2
AP CUT
SLICE
AP GAIN
OFFSET
Y IN
Vcc
CAM 5V (W801④)
AGC SEL
AGC CONT R
Y LPF
BUFFER
GATE
WINDOW
AGC DET
AGC SWITCH
IRIS DET
ATT BUFFER
CLAMP
1H DELAY
R OUT
B OUT
G OUT
DC OUT
R MTX
B MTX
ID
CS GAIN
CS Y OUT
VCS GAIN
YH OUT
YL-YH OUT
BLANKING
HD MIX
ATT
COMP
SLICE
MAX
LPF
SW
MIX
Y GAIN
YL IN
AGC MIX
0.36Vp-p
0.25Vp-p
0.18Vp-p
0.4Vp-p
4.8Vp-p
14.188MHz
14.2MHz BPF
B GAIN
R GAIN
B CONT
R CONT
C LEVEL
C-PED
R COMP
OFFSET CONT
G OUT
MATRIX
PED
YL MATRIX
YL MIX
Y-Γ CONT
R-G
B-G
MOD
MODULATOR
BURST GATE
GAIN CONTROL
WHITE CLIP
Y FADER
SHP CLP
0.18μsec DELAY
R-Y
B-Y
CS-Y
CS AGC
B LEVEL CONT
LALT
AF SC
HUE
BF
YL-YH
YH
C BLK
AGC CONT
1/2 & ALT
1/2
DLD
DLE NOISE
APERTURE
SHP LEVEL
Y LEVEL
SYNC LEVEL
WC
0.5Vp-p
0.28Vp-p

Blockschaltbild Kamera
Camera Block Diagram



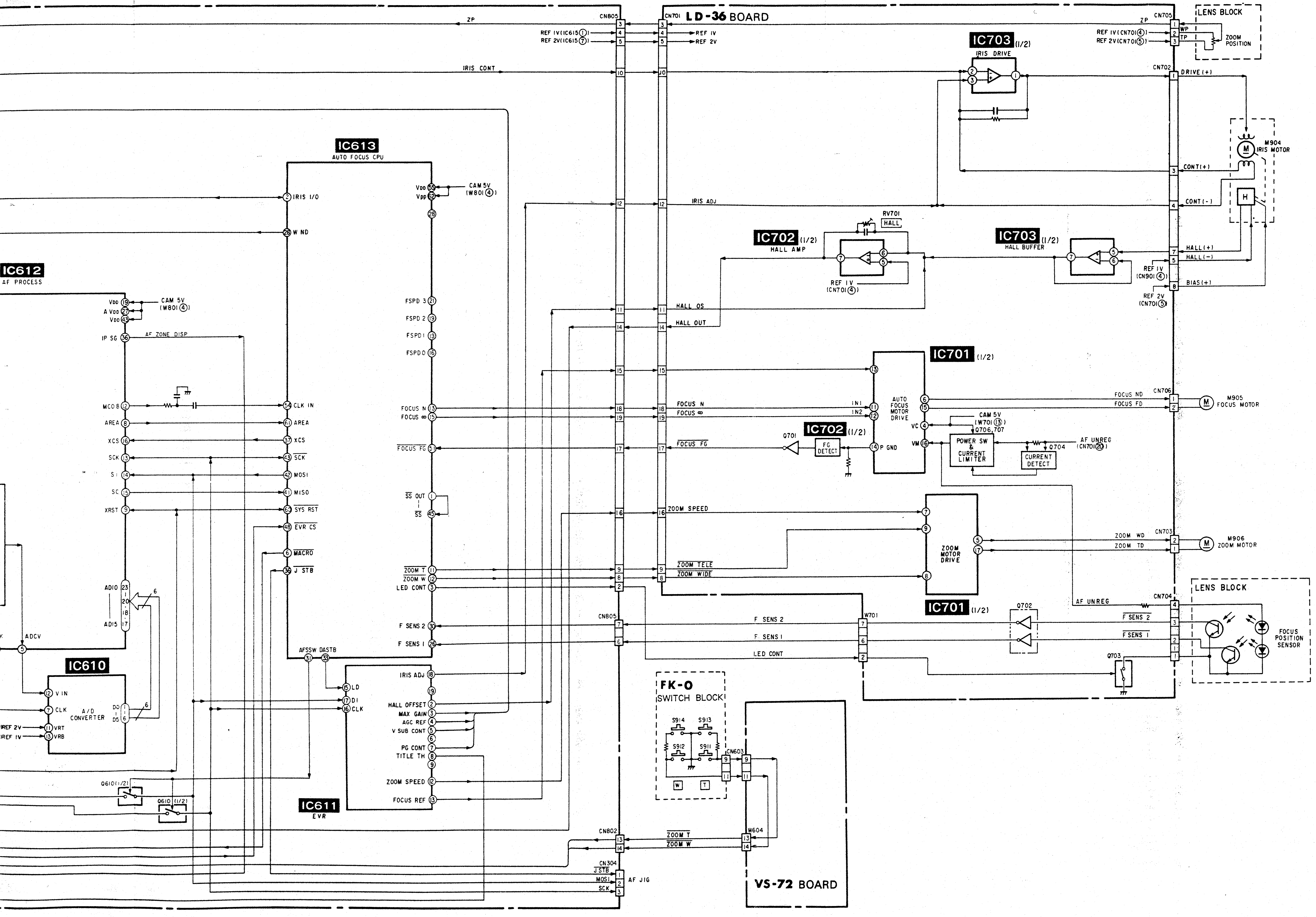
IC251
PROCESS
IC253 (1/2)
TITLE MIX
IC301
ENCODER
B GAIN
R GAIN
DELTA B
DELTA R
C LEVEL
C PED
R-Y HUE
B-Y HUE
R-Y GAIN
B-Y GAIN
B CONT
R CONT
GATE DET
PED
CLP
MATRIX
YL MATRIX 2
YL MIX
YL-YH OUT
YH OUT
GATE
R-G
B-G
R-Y OUT
B-Y OUT
C-Z CONT
Y-Z CONT
Y PED
CLP 2
CAM 5V
OFFSET CONT
G OUT
Vcc
CAM 5V (W801 ④)
CLAMP
R-Y/B-Y MATRIX
Q255 LPF
Q257 LPF
0.6Vp-p
0.34Vp-p
0.76Vp-p
IC253 ⑬
IC253 ⑪
IC301 ㉔
CHECK POINT ARRAY (CAP001)
PG CONT
Y(LPF) OUT
YO
YI
CO
CI
V SUB CHK
IRIS DET
IRIS CONT
YH (MIX OUT)
CAM Y
CAM C
OFFSET CONT
G OUT CHK
GND
AW ADJ
CAM ADJ
MODULATOR
BLANKING FADER SUPRESS
4.43MHz BPF
L304
BUFFER
Q302
Q309
Q312
W303
CAM C
CAM Y
VIDEO (1) (VS-72)
CAM C OUT
CAM Y OUT (2)
BLK (2)
CAMERA REC
C OUT
C IN
Vcc(D)
Vcc(A)
FADER
VIDEO OUT
SYNC CHARACTER MIX
CLP 2
CHRACTER
EVF OUT
BURST GATE
MOD
1/2 & ALT
1/2
SC
BURST LEVEL
B LEVEL CONT
4FSC
AF SC
HUE
BF
YL-YH
YH
CS-Y
CS AGC
SHP CLP
SHP LEVEL
GAIN CONTROL
WHITE CLIP
Y FADER
Y BLK
SET UP
SYNC
BLK
DELAY
Q303
Q304
DLD
DLE NOISE
FL303 0.18μsec DELAY
APERTURE
Y LEVEL
SYNC LEVEL
WC
Q307
0.5Vp-p
0.28Vp-p
R337-338 MIX
TITLE Y
CN802
TB
TG
TR
TC BLK
TY MIX
TY BLK
VD
HD
A/D Y
DIGITAL TITLE (T1-31)
DIGITAL TITLE

Blockschaltbild Autofokus
Auto Focus Block Diagram



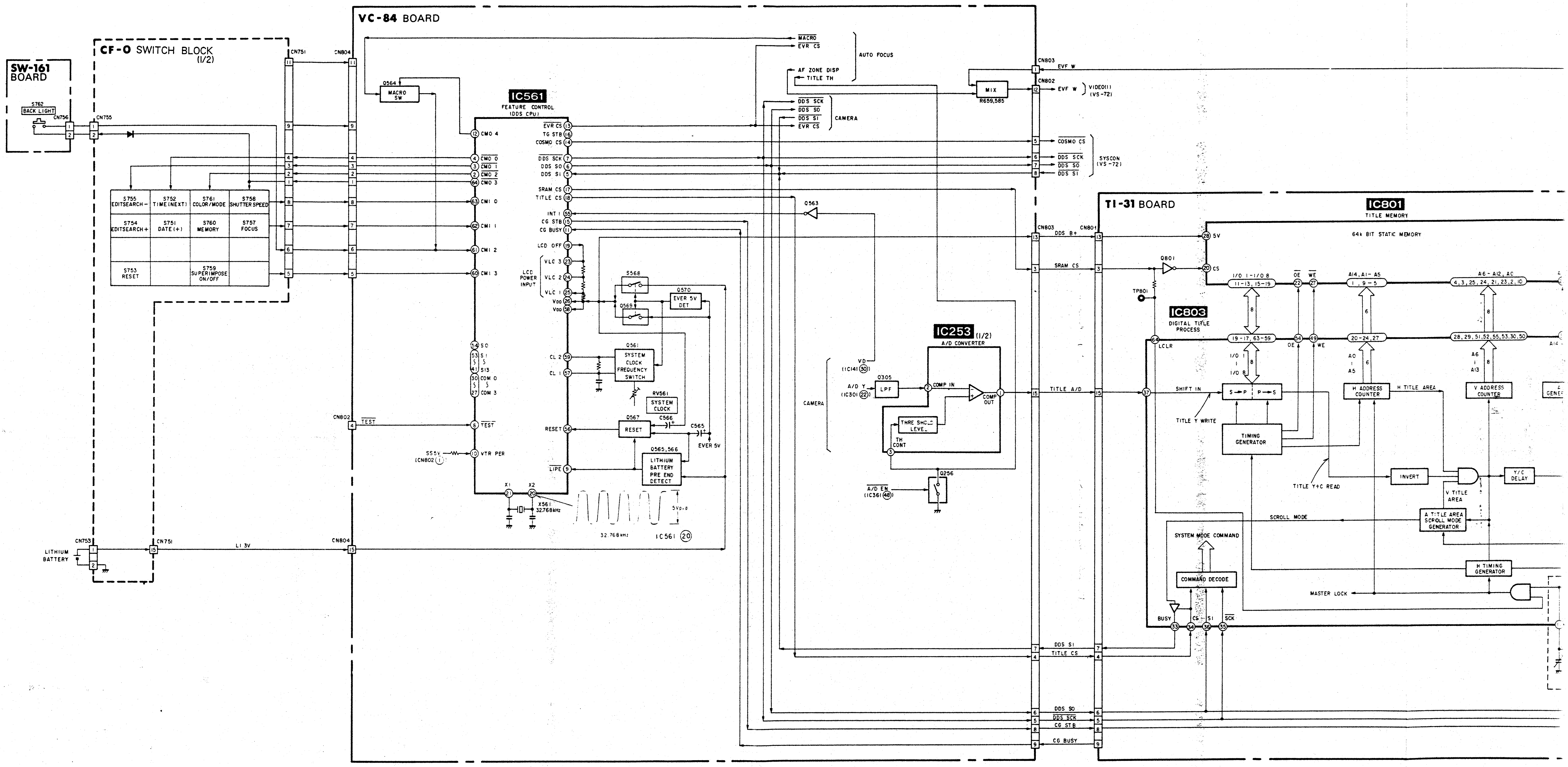
VC-84 BOARD (AUTO FOCUS)
CAMERA
IRIS CONT (Q102)
MAX GAIN
PG CONT
V SUB CONT
AGC REF
IRIS I/O (IC361 ⑮)
IC612
AF PROCESS
AF CLK (4FSC) (Q142)
(IC141 ㉚) VD(2)
(IC141 ㉙) HD(2)
AGC CONT (2) (Q107)
YH (AF) (Q195)
W ND (IC141 ②)
D611
Q613 HPF 1
Q614 HPF 2
Q619 AMP
FL610 LPF
Q620,621 RECT
CKP
MC IN
VD
HD
SO IN
S1 IN
SWOT
2 TO 1 ANALOG SW
ADRF
ANI 0
ANI 1
ANI 2
ANI 3
ANI 4
ANI 5
7 LINE TO 1 LINE DATA MULTIPLEXER
HALL OUT
AGC CONT
ZOOM T
ZOOM W
VDD
A VDD
IP SG
AF ZC
MCO 8
AREA
XCS
SCK
SI
SC
XRST
AD10
AD15
ADCK
ADCV
IC616
GAIN SW
IC615
AD REF
5V
REF 2V
REF 1V
IC610
V IN
CLK
A/D CONVERTER
DO
D5
VRT
VRB
(IC615 ⑦)REF 2V
(IC615 ①)REF 1V
CAM 5V
Q612
CN802
SYSTEM CONTROL (VS-72)
SYSTEM RESET
Q610(1/2)
CAMERA
DDS SI(2)
DDS SCK 2
DIGITAL TITLE
MACRO
EVR CS
AF ZONE DISP
TITLE TH
6

Blockschaltbild Autofokus
Auto Focus Block Diagram

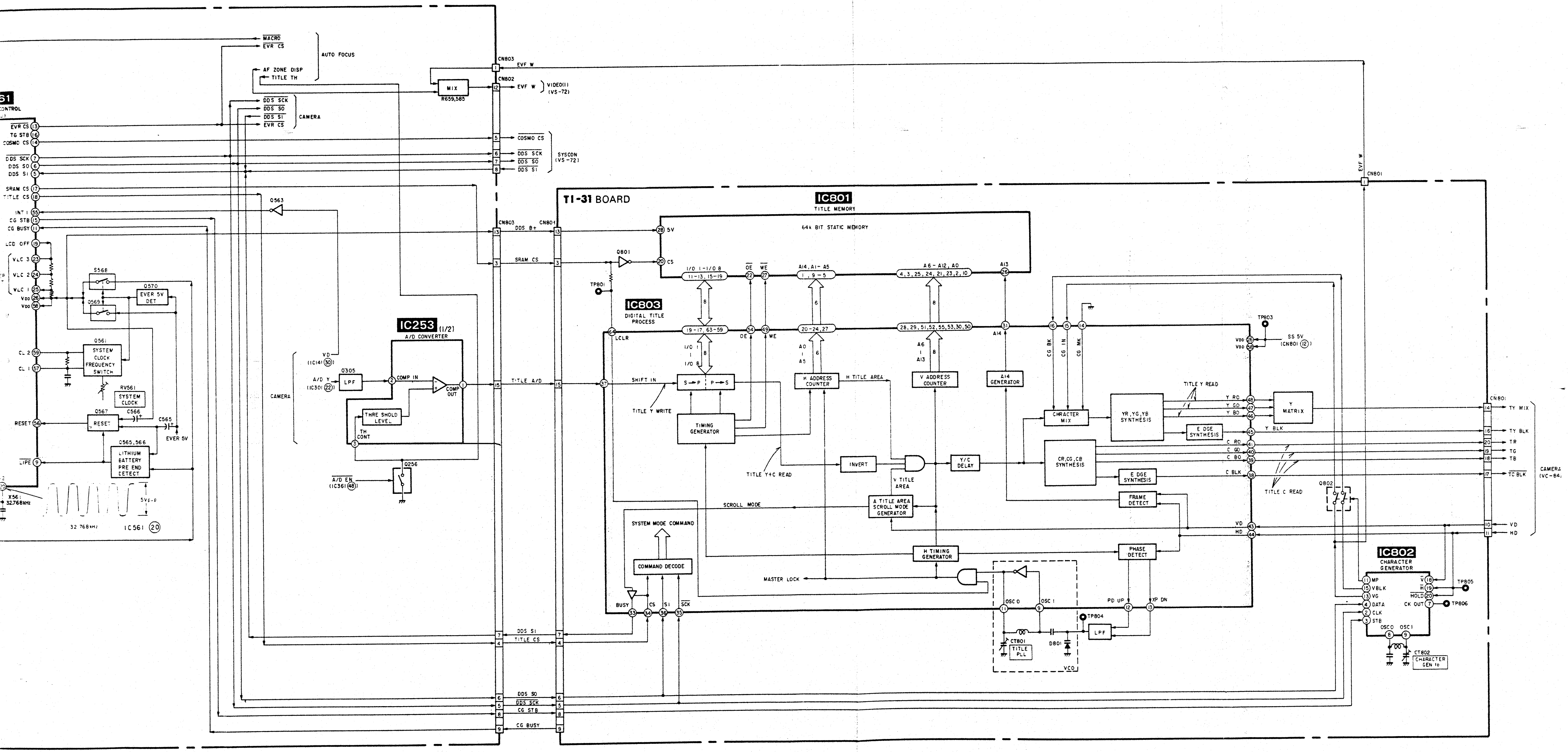

LD-36 BOARD
CN701
CN805
CN705
LENS BLOCK
ZOOM POSITION
ZP
WP
TP
REF 1V
REF 2V
REF 1V (IC615 ①)
REF 2V (IC615 ⑦)
REF 1V (CN701 ④)
REF 2V (CN701 ⑤)
IRIS CONT
IC703 (1/2)
IRIS DRIVE
CN702
DRIVE (+)
CONT (+)
CONT (-)
M904
IRIS MOTOR
H
IRIS ADJ
IC613
AUTO FOCUS CPU
IRIS I/O
W ND
VDD
VPP
CAM 5V (W801 ④)
RV701
HALL
IC702 (1/2)
HALL AMP
REF 1V (CN701 ④)
IC703 (1/2)
HALL BUFFER
HALL (+)
HALL (-)
REF 1V (CN901 ④)
BIAS (+)
REF 2V (CN701 ⑤)
IC612
AF PROCESS
CAM 5V (W801 ④)
IP SG
AF ZONE DISP
FSPD 3
FSPD 2
FSPD 1
FSPD 0
HALL OS
HALL OUT
IC701 (1/2)
AUTO FOCUS MOTOR DRIVE
MCO B
CLK IN
AREA
XCS
SCK
SI
MOSI
SC
MISO
XRST
SYS RST
EVR CS
MACRO
J STB
FOCUS N
FOCUS ∞
IN1
IN2
CN706
FOCUS ND
FOCUS FD
M905
FOCUS MOTOR
VC
CAM 5V (W701 ⑬)
Q706, 707
VM
POWER SW & CURRENT LIMITER
AF UNREG (CN701 ⑳)
Q704
CURRENT DETECT
FOCUS FG
IC702 (1/2)
Q701
FG DETECT
P GND
SS OUT
SS
ZOOM SPEED
ZOOM MOTOR DRIVE
CN703
ZOOM WD
ZOOM TD
M906
ZOOM MOTOR
ZOOM TELE
ZOOM WIDE
ZOOM T
ZOOM W
LED CONT
ADIO
ADI5
ADCV
AFSSW
DASTB
F SENS 2
F SENS 1
W701
IC701 (1/2)
Q702
CN704
AF UNREG
LENS BLOCK
FOCUS POSITION SENSOR
Q703
IC610
A/D CONVERTER
V IN
CLK
VRT
VRB
REF 2V
REF 1V
D0
D5
LD
DI
IRIS ADJ
HALL OFFSET
MAX GAIN
AGC REF
V SUB CONT
PG CONT
TITLE TH
ZOOM SPEED
FOCUS REF
IC611
EVR
Q610 (1/2)
FK-0
SWITCH BLOCK
S914
S913
S912
S911
W
T
CN603
CN802
W604
CN304
J STB
MOSI
SCK
AF JIG
VS-72 BOARD

Blockschaltbild Titelspeicher
Digital Titler Block Diagram

Blockschaltbil
Digital Titler Bl

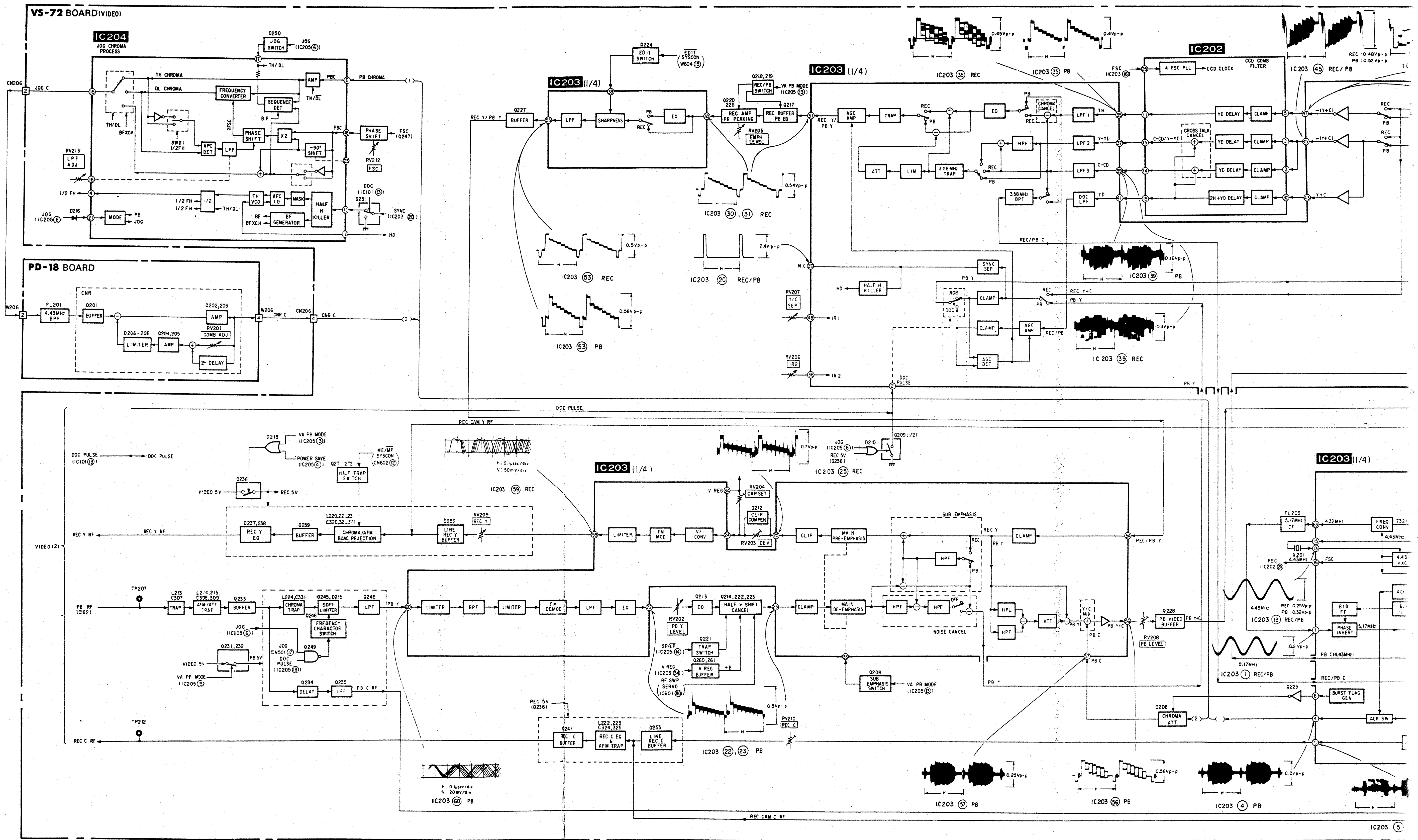

SW-161 BOARD
S762
BACK LIGHT
CN756
CN755
CF-0 SWITCH BLOCK (1/2)
CN751
CN804
S755 EDITSEARCH−
S752 TIME(NEXT)
S761 COLOR/MODE
S758 SHUTTER SPEED
S754 EDITSEARCH+
S751 DATE(+)
S760 MEMORY
S757 FOCUS
S753 RESET
S759 SUPERIMPOSE ON/OFF
LITHIUM BATTERY
CN753
CN751
LI 3V
CN804
VC-84 BOARD
Q564
MACRO SW
IC561
FEATURE CONTROL (DDS CPU)
CMO 4
CMO 0
CMO 1
CMO 2
CMO 3
CMI 0
CMI 1
CMI 2
CMI 3
SO
S1
S13
COM 0
COM 3
CN802
TEST
SS5V
(CN802 ①)
VTR PER
X1
X2
X561 32.768kHz
5Vp-p
32.768kHz
IC561 ⑳
EVR CS
TG STB
COSMO CS
DDS SCK
DDS SO
DDS SI
SRAM CS
TITLE CS
INT 1
CG STB
CG BUSY
LCD OFF
LCD POWER INPUT
VLC 3
VLC 2
VLC 1
VDD
CL 2
CL 1
RESET
LIPE
S568
Q569
Q570
EVER 5V DET
Q561
SYSTEM CLOCK FREQUENCY SWITCH
RV561
SYSTEM CLOCK
Q567
RESET
C566
C565
EVER 5V
Q565,566
LITHIUM BATTERY PRE END DETECT
MACRO
EVR CS
AUTO FOCUS
AF ZONE DISP
TITLE TH
DDS SCK
DDS SO
DDS SI
EVR CS
CAMERA
MIX
R659,585
CN803
EVF W
CN802
EVF W
VIDEO(1) (VS-72)
COSMO CS
DDS SCK
DDS SO
DDS SI
SYSCON (VS-72)
Q563
CN803
CN801
DDS B+
SRAM CS
IC253 (1/2)
A/D CONVERTER
VD (IC141 ㉚)
A/D Y (IC301 ㉒)
Q305
LPF
CAMERA
COMP IN
COMP OUT
THRESHOLD LEVEL
TH CONT
Q256
A/D EN (IC361 (48))
TITLE A/D
DDS SI
TITLE CS
DDS SO
DDS SCK
CG STB
CG BUSY
TI-31 BOARD
IC801
TITLE MEMORY
64k BIT STATIC MEMORY
5V
CS
Q801
TP801
IC803
DIGITAL TITLE PROCESS
LCLR
I/O 1-I/O 8
11-13, 15-19
OE
WE
A14, A1-A5
1, 9-5
A6-A12, A0
4, 3, 25, 24, 21, 23, 2, 10
19-17, 63-59
20-24, 27
28, 29, 51, 52, 55, 53, 30, 50
I/O 1 I/O 8
A0 A5
A6 A13
SHIFT IN
S→P
P→S
TITLE Y WRITE
TIMING GENERATOR
H ADDRESS COUNTER
H TITLE AREA
V ADDRESS COUNTER
TITLE Y+C READ
INVERT
Y/C DELAY
V TITLE AREA
A TITLE AREA SCROLL MODE GENERATOR
SCROLL MODE
SYSTEM MODE COMMAND
COMMAND DECODE
H TIMING GENERATOR
MASTER LOCK
BUSY
CS
SI
SCK

Blockschaltbild Titelspeicher
Digital Titler Block Diagram


MACRO
EVR CS
AF ZONE DISP
TITLE TH
AUTO FOCUS
DDS SCK
DDS SO
DDS SI
EVR CS
CAMERA
CN803
EVF W
CN802
MIX
R659,585
VIDEO(1) (VS-72)
COSMO CS
SYSCON (VS-72)
61
CONTROL
EVR CS 13
TG STB 16
COSMO CS 14
DDS SCK 7
DDS SO 6
DDS SI 5
SRAM CS 17
TITLE CS 18
INT 1 55
CG STB 15
CG BUSY 11
LCD OFF 19
VLC 3 23
VLC 2 24
VLC 1 25
VDD 26
VDD 58
CL 2 59
CL 1 57
RESET 56
LIPE 9
Q563
S568
Q570
EVER 5V DET
Q569
Q561
SYSTEM CLOCK FREQUENCY SWITCH
RV561
SYSTEM CLOCK
Q567
RESET
C566
C565
EVER 5V
Q565,566
LITHIUM BATTERY PRE END DETECT
X561 32.768kHz
5Vp-p
32.768kHz
IC561 (20)
CAMERA
VD (IC141 (30))
A/D Y (IC301 (22))
Q305
LPF
IC253 (1/2)
A/D CONVERTER
COMP IN
COMP OUT
THRE SHOLD LEVEL
TH CONT
Q256
A/D EN (IC361 (48))
DDS B+
SRAM CS
TITLE A/D
CN804
DDS SI
TITLE CS
DDS SO
DDS SCK
CG STB
CG BUSY
TI-31 BOARD
IC801
TITLE MEMORY
64k BIT STATIC MEMORY
5V
CS
Q801
TP801
I/O 1-I/O 8
11-13, 15-19
OE
WE
A14, A1-A5
1, 9-5
A6-A12, A0
4, 3, 25, 24, 21, 23, 2, 10
A13
IC803
DIGITAL TITLE PROCESS
19-17, 63-59
20-24, 27
28, 29, 51, 52, 55, 53, 30, 50
A14
LCLR
I/O 1
I/O 8
A0
A5
A6
A13
SHIFT IN
S→P
P→S
TITLE Y WRITE
TIMING GENERATOR
H ADDRESS COUNTER
H TITLE AREA
V ADDRESS COUNTER
A14 GENERATOR
INVERT
TITLE Y+C READ
V TITLE AREA
Y/C DELAY
A TITLE AREA SCROLL MODE GENERATOR
SCROLL MODE
SYSTEM MODE COMMAND
COMMAND DECODE
BUSY
CS
SI
SCK
MASTER LOCK
H TIMING GENERATOR
OSC 0
OSC 1
CT801
TITLE PLL
D801
VCO
TP804
LPF
PD UP
XP DN
PHASE DETECT
FRAME DETECT
CG BK
CG IN
CG MK
CHRACTER MIX
YR, YG, YB SYNTHESIS
TITLE Y READ
Y RO
Y GO
Y BO
Y MATRIX
E DGE SYNTHESIS
Y BLK
CR, CG, CB SYNTHESIS
C RO
C GO
C BO
C BLK
TITLE C READ
VD
HD
TP803
VDD
SS 5V (CN801 (12))
Q802
EVF W
CN801
TY MIX
TY BLK
TR
TG
TB
TC BLK
CAMERA (VC-84)
IC802
CHARACTER GENERATOR
MP
VBLK
VG
DATA
CLK
STB
V
H
HOLD
CK OUT
TP805
TP806
OSC0
OSC1
CT802
CHARACTER GEN fo

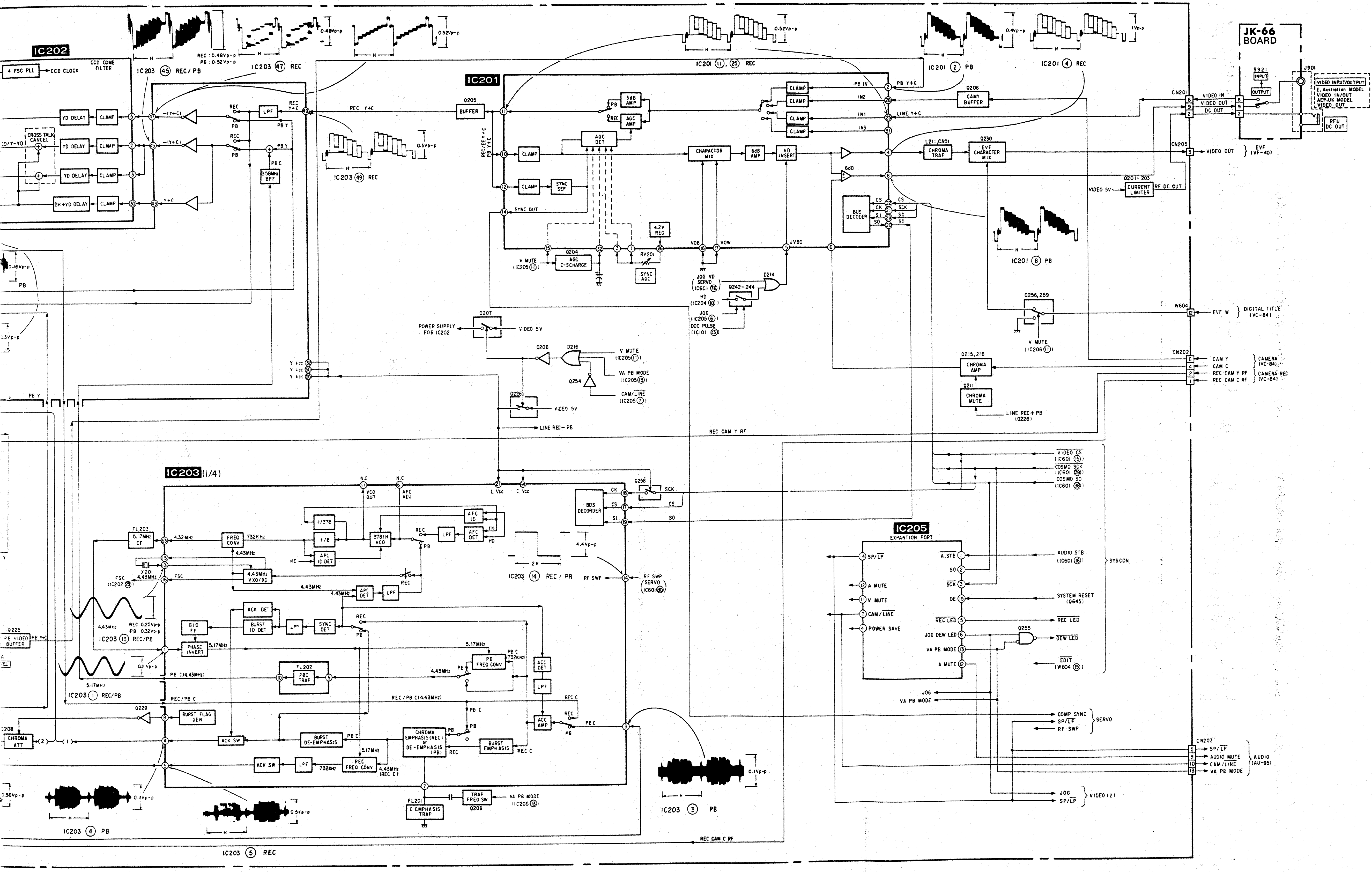
Blockschaltbild Video (1)

Video (1) Block Diagram

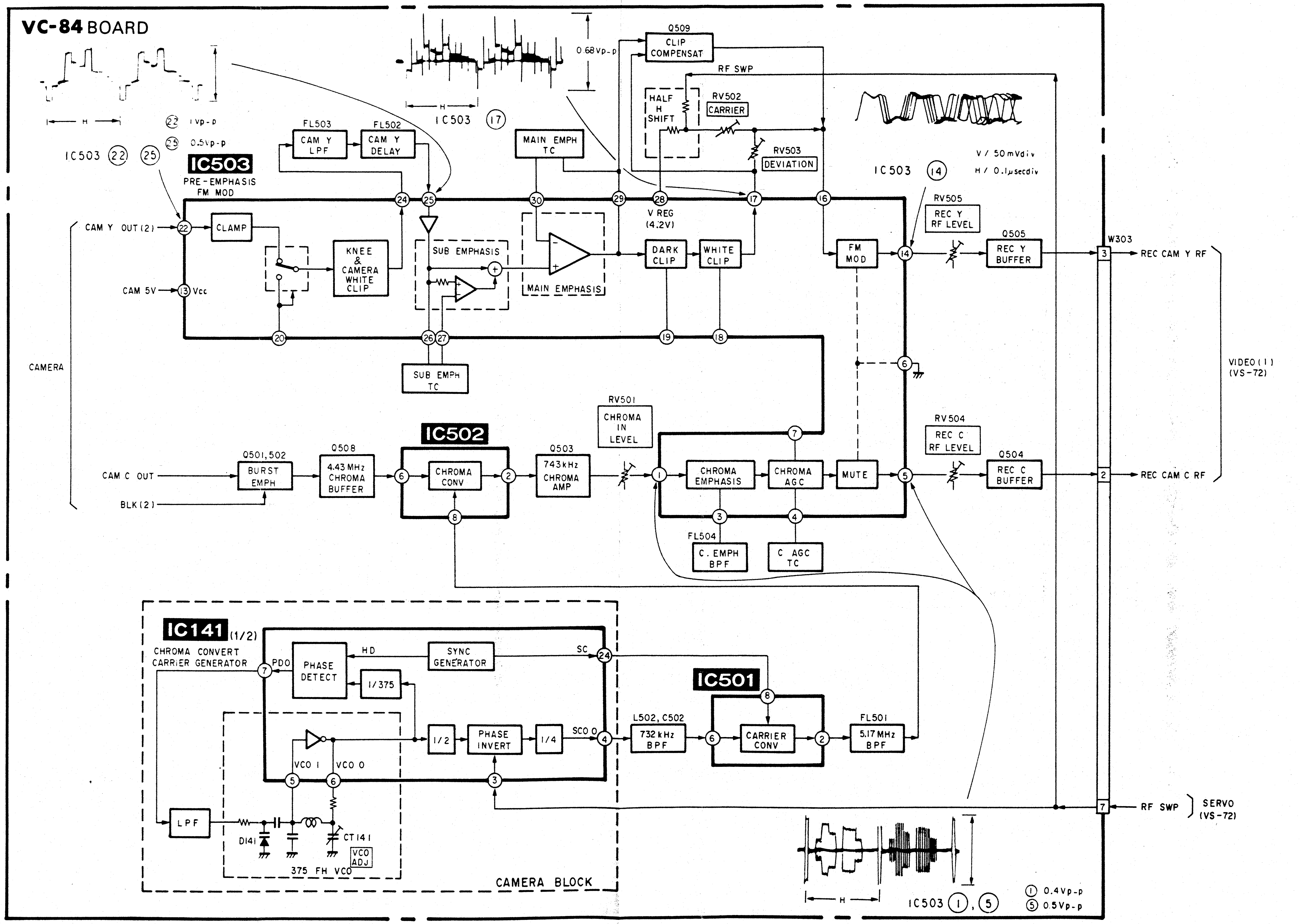


VS-72 BOARD (VIDEO)
IC204
JOG CHROMA PROCESS
Q250
JOG SWITCH
JOG (IC205 ⑥)
TH/DL
TH CHROMA
DL CHROMA
FREQUENCY CONVERTER
SEQUENCE DET
AMP
PBC
PB CHROMA
TH/DL
B.F
2FSC
PHASE SHIFT
X2
FSC
PHASE SHIFT
FSC (Q247)
-90° SHIFT
RV212
FSC
SWD1
1/2FH
APC DET
LPF
TH/DL
BFXCH
RV213
LPF ADJ
1/2 FH
1/2
1/2 FH
FH VCO
AFC I D
MASK
HALF H KILLER
BF GENERATOR
BF
BFXCH
DOC (IC101 ③)
Q251
SYNC (IC203 ⑳)
HD
JOG (IC205 ⑥)
D216
MODE
PB
JOG
CN206
JOG C
PD-18 BOARD
CNR
FL201
4.43MHz BPF
Q201
BUFFER
Q202,203
AMP
Q206-208
LIMITER
Q204,205
AMP
RV201
COMB ADJ
2H DELAY
W206
CNR C
CN206
CNR C
Q224
EDIT SWITCH
EDIT (SYSCON W604 ⑮)
IC203 (1/4)
REC Y/PB Y
Q227
BUFFER
LPF
SHARPNESS
EQ
PB
REC
Q218,219
REC/PB SWITCH
VA PB MODE (IC205 ⑬)
Q220 225
REC AMP PB PEAKING
Q217
REC BUFFER PB EQ
RV205
EMPH LEVEL
IC203 (1/4)
REC Y/ PB Y
AGC AMP
TRAP
REC
PB
EQ
CHROMA CANCEL
LPF 1
LPF 2
LPF 3
DOC LPF
ATT
LIM
3.58MHz TRAP
HPF
3.58MHz BPF
TH
Y-YD
C-CD
YD
IC203 ㉟ REC
IC203 ㉟ PB
0.45Vp-p
0.4Vp-p
FSC (IC203 ⑯)
IC202
4 FSC PLL
CCD CLOCK
CCD COMB FILTER
IC203 ㊺ REC/PB
REC: 0.48Vp-p
PB: 0.52Vp-p
C-CD/Y-YD
CROSS TALK CANCEL
YD DELAY
CLAMP
2H+YD DELAY
-(Y+C)
Y+C
REC
PB
REC/PB C
0.54Vp-p
IC203 ㉚, ㉛ REC
0.5Vp-p
IC203 ㊸ REC
2.4Vp-p
IC203 ⑳ REC/PB
0.58Vp-p
IC203 ㊸ PB
NC
SYNC SEP
HD
HALF H KILLER
RV207
Y/C SEP
IR1
RV206
IR2
IR 2
PB Y
NOR
DOC
CLAMP
AGC AMP
AGC DET
REC Y+C
REC/PB
0.16Vp-p
IC203 ㊴ PB
0.3Vp-p
IC203 ㊴ REC
DOC PULSE
DOC PULSE
REC CAM Y RF
DOC PULSE (IC101 ③)
DOC PULSE
Q218
VA PB MODE (IC205 ⑬)
POWER SAVE (IC205 ④)
ME/MP SYSCON (CN602 ⑫)
Q271,272
HALF TRAP SWITCH
Q236
VIDEO 5V
REC 5V
H: 0.1μsec/div
V: 50mV/div
IC203 ㊿ REC
0.7Vp-p
JOG (IC205 ⑥)
REC 5V (Q236)
D210
Q209 (1/2)
IC203 ㉕ REC
IC203 (1/4)
IC203 (1/4)
V REG
RV204
CARSET
Q212
CLIP COMPEN
RV203 DEV
L220,221,231 C320,321,371
Q237,238
REC Y EQ
Q239
BUFFER
CHROMA/AFM BAND REJECTION
Q252
LINE REC Y BUFFER
RV209
REC Y
REC Y RF
REC Y RF
VIDEO (2)
LIMITER
FM MOD
V/I CONV
CLIP
MAIN PRE-EMPHASIS
SUB EMPHASIS
REC Y
REC
PB
CLAMP
REC/PB Y
HPF
FL203
5.17MHz CF
4.32MHz
FREQ CONV
X201 4.43MHz
FSC (IC202 ㉓)
FSC
TP207
PB RF (Q162)
L213 C307
TRAP
L214,215, C308,309
AFM/ATF TRAP
Q233
BUFFER
L224,C331
CHROMA TRAP
Q245,D215
SOFT LIMITER
Q246
LPF
PB Y
Q248
FREQUENCY CHARACTOR SWITCH
JOG (IC205 ⑥)
Q231,232
VIDEO 5V
VA PB MODE (IC205 ⑬)
PB 5V
JOG (CN501 ⑰)
DOC PULSE (IC205 ⑬)
Q249
Q234
DELAY
Q235
LPF
PB C RF
LIMITER
BPF
LIMITER
FM DEMOD
LPF
EQ
RV202
PB Y LEVEL
Q213
EQ
Q214,222,223
HALF H SHIFT CANCEL
Q221
TRAP SWITCH
SP/LP (IC205 ⑭)
Q260,261
V REG BUFFER
V REG (IC203 ㉞)
RF SWP (SERVO IC601 ⑳)
+B
CLAMP
MAIN DE-EMPHASIS
HPF
HPF
OFF
NOISE CANCEL
HPL
HPF
ATT
Y/C MIX
PB Y
PB C
PB Y+C
Q228
PB VIDEO BUFFER
PB Y+C
RV208
PB LEVEL
Q208
SUB EMPHASIS SWITCH
VA PB MODE (IC205 ⑬)
4.43MHz
5.17MHz
REC 0.25Vp-p
PB 0.32Vp-p
IC203 ⑬ REC/PB
0.2Vp-p
IC203 ① REC/PB
BID FF
PHASE INVERT
5.17MHz
PB C(4.43MHz)
REC/PB C
Q229
BURST FLAG GEN
ACK SW
Q208
CHROMA ATT
REC 5V (Q236)
Q241
REC C BUFFER
L222,223 C324,325
REC C EQ & AFM TRAP
Q253
LINE REC C BUFFER
0.5Vp-p
RV210
REC C
IC203 ㉒, ㉓ PB
TP212
REC C RF
H: 0.1μsec/div
V: 20mV/div
IC203 ⑳ PB
0.25Vp-p
IC203 ㊼ PB
0.56Vp-p
IC203 ㊻ PB
0.3Vp-p
IC203 ④ PB
REC CAM C RF
IC203 ⑤

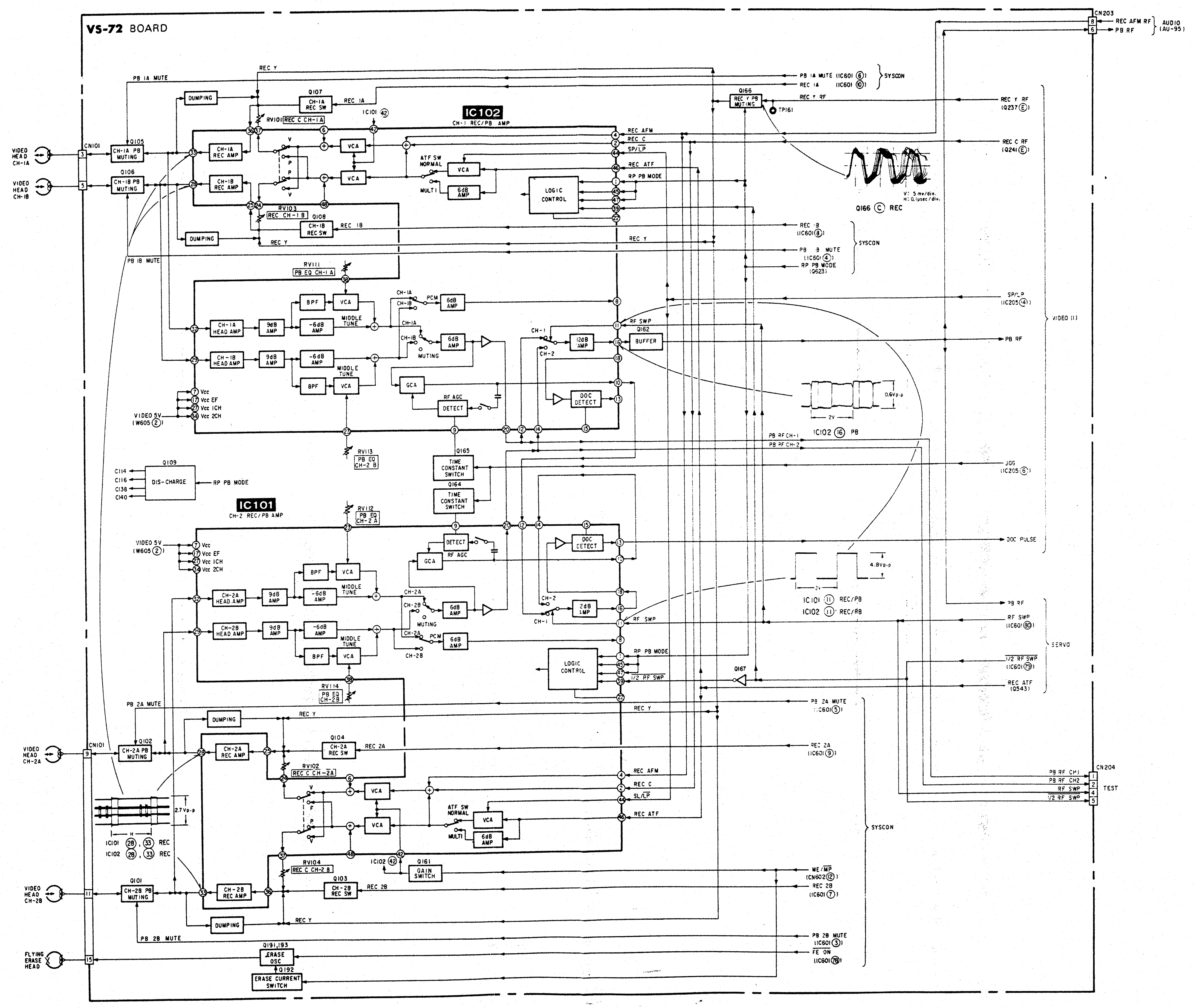
Blockschaltbild Video (1)
Video (1) Block Diagram


IC202
4 FSC PLL
CCD CLOCK
CCD COMB FILTER
YD DELAY
CLAMP
CROSS TALK CANCEL
2H+YD DELAY
IC203 (45) REC/PB
IC203 (47) REC
IC203 (49) REC
LPF
3.58MHz BPF
IC201
BUFFER
Q205
3dB AMP
AGC AMP
AGC DET
SYNC SEP
SYNC OUT
CHARACTOR MIX
6dB AMP
VD INSERT
BUS DECODER
4.2V REG
RV201
SYNC AGC
Q204 AGC DISCHARGE
V MUTE (IC205 (11))
IC201 (11), (25) REC
IC201 (2) PB
IC201 (4) REC
IC201 (8) PB
CAMY BUFFER
Q206
L211, C301 CHROMA TRAP
Q230 EVF CHARACTER MIX
Q201-203 CURRENT LIMITER
RF DC OUT
VIDEO 5V
JK-66 BOARD
S921 INPUT OUTPUT
J901
VIDEO INPUT/OUTPUT
E, Australian MODEL VIDEO IN/OUT
AEP, UK MODEL VIDEO OUT
RFU DC OUT
CN201
VIDEO IN
VIDEO OUT
DC OUT
CN205
VIDEO OUT
EVF (VF-40)
W604
EVF W
DIGITAL TITLE (VC-84)
CN202
CAM Y
CAM C
REC CAM Y RF
REC CAM C RF
CAMERA (VC-84)
CAMERA REC (VC-84)
Q215, 216 CHROMA AMP
Q211 CHROMA MUTE
LINE REC+PB (Q226)
Q256, 259
V MUTE (IC206 (11))
JOG VD SERVO (IC601 (76))
Q242-244
D214
HD (IC204 (6))
JOG (IC205 (6))
DOC PULSE (IC101 (3))
Q207
POWER SUPPLY FOR IC202
VIDEO 5V
Q206
D216
V MUTE (IC205 (11))
VA PB MODE (IC205 (13))
Q254
CAM/LINE (IC205 (7))
Q226
LINE REC+PB
REC CAM Y RF
IC203 (1/4)
VCC OUT
APC ADJ
L Vcc
C Vcc
Q258
BUS DECORDER
CK CS SI
SCK CS SO
1/378
1/6
APC ID DET
AFC ID
AFC DET
378fH VCO
FL203 5.17MHz CF
FREQ CONV
732KHz
4.43MHz
X201 4.43MHz
FSC (IC202 (23))
4.43MHz VXO/XO
APC DET
ACK DET
BURST ID DET
SYNC DET
BID FF
PHASE INVERT
FL202 FBC TRAP
PB FREQ CONV
ACC DET
ACC AMP
BURST FLAG GEN
Q229
ACK SW
BURST DE-EMPHASIS
CHROMA EMPHASIS (REC) DE-EMPHASIS (PB)
BURST EMPHASIS
REC FREQ CONV
FL201 C EMPHASIS TRAP
TRAP FREQ SW Q209
VA PB MODE (IC205 (13))
IC203 (14) REC / PB
RF SWP (SERVO (IC601 (65)))
IC203 (1) REC/PB
IC203 (13) REC/PB
IC203 (4) PB
IC203 (5) REC
IC203 (3) PB
Q228 PB VIDEO BUFFER
Q208 CHROMA ATT
REC CAM C RF
IC205 EXPANTION PORT
SP/LP
A MUTE
V MUTE
CAM/LINE
POWER SAVE
A.STB
SO
SCK
OE
REC LED
JOG DEW LED
VA PB MODE
A MUTE
Q255
VIDEO CS (IC601 (15))
COSMO SCK (IC601 (39))
COSMO SO (IC601 (38))
AUDIO STB (IC601 (16))
SYSTEM RESET (Q645)
REC LED
DEW LED
EDIT (W604 (5))
SYSCON
JOG
VA PB MODE
COMP SYNC
SP/LP
RF SWP
SERVO
CN203
SP/LP
AUDIO MUTE
CAM/LINE
VA PB MODE
AUDIO (AU-95)
JOG
SP/LP
VIDEO (2)

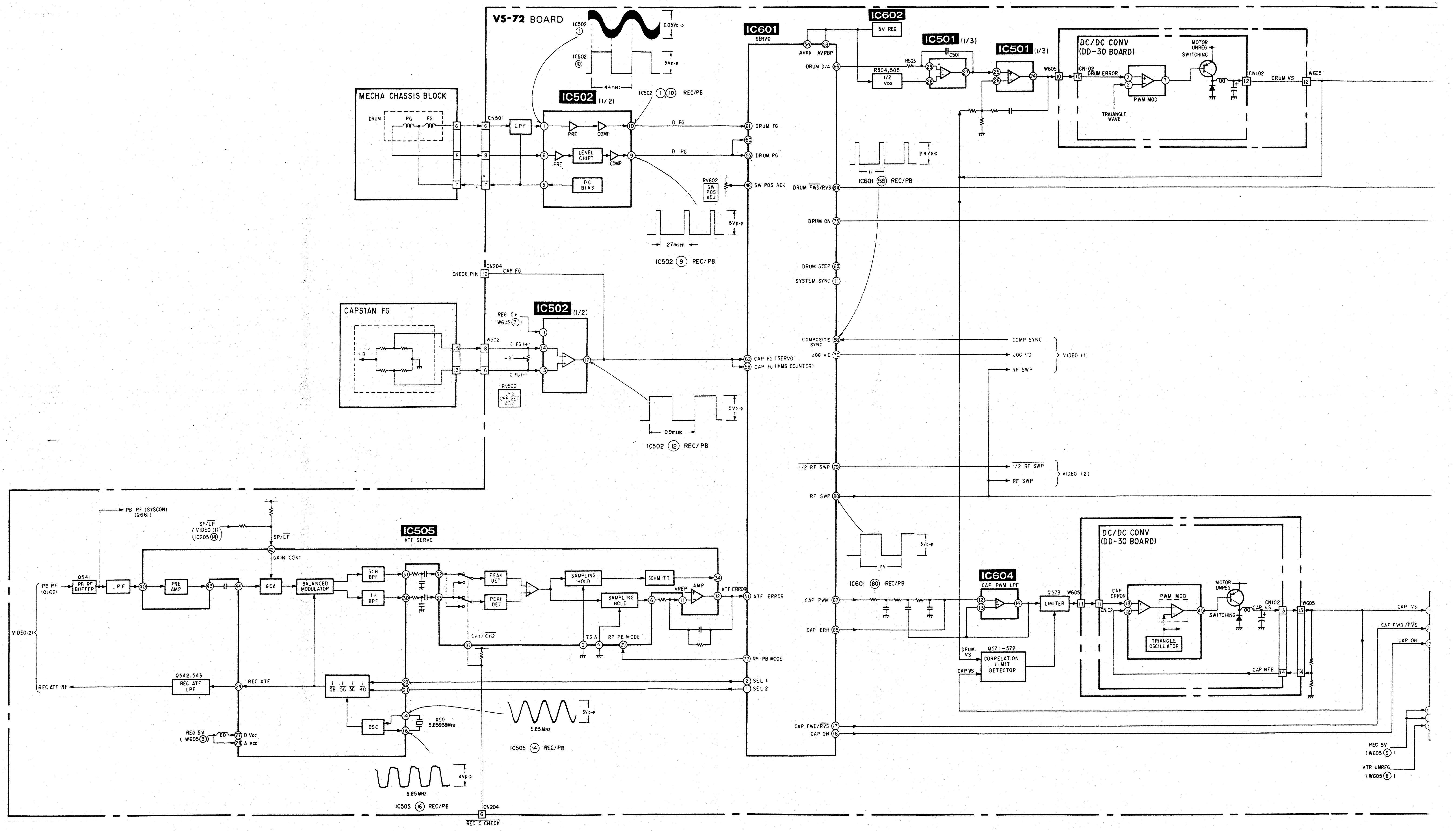
Blockschaltbild Kamera-Aufnahme
Camera Rec Block Diagram


VC-84 BOARD
IC503 ㉒ ㉕
㉒ 1Vp-p
㉕ 0.5Vp-p
H
IC503
PRE-EMPHASIS
FM MOD
CAM Y OUT (2)
CLAMP
KNEE & CAMERA WHITE CLIP
CAM 5V
Vcc
FL503
CAM Y LPF
FL502
CAM Y DELAY
SUB EMPHASIS
MAIN EMPHASIS
MAIN EMPH TC
SUB EMPH TC
IC503 ⑰
0.68Vp-p
Q509
CLIP COMPENSAT
RF SWP
HALF H SHIFT
RV502
CARRIER
RV503
DEVIATION
V REG (4.2V)
DARK CLIP
WHITE CLIP
FM MOD
IC503 ⑭
V / 50mVdiv
H / 0.1μsecdiv
RV505
REC Y RF LEVEL
Q505
REC Y BUFFER
W303
REC CAM Y RF
VIDEO (1) (VS-72)
CAMERA
RV501
CHROMA IN LEVEL
IC502
CAM C OUT
BLK (2)
Q501,502
BURST EMPH
Q508
4.43 MHz CHROMA BUFFER
CHROMA CONV
Q503
743kHz CHROMA AMP
CHROMA EMPHASIS
CHROMA AGC
MUTE
FL504
C. EMPH BPF
C AGC TC
RV504
REC C RF LEVEL
Q504
REC C BUFFER
REC CAM C RF
IC141 (1/2)
CHROMA CONVERT CARRIER GENERATOR
PDO
PHASE DETECT
HD
SYNC GENERATOR
SC
1/375
1/2
PHASE INVERT
1/4
SCO O
VCO I
VCO O
LPF
D141
CT141
VCO ADJ
375 FH VCO
CAMERA BLOCK
IC501
L502, C502
732 kHz BPF
CARRIER CONV
FL501
5.17 MHz BPF
RF SWP
SERVO (VS-72)
IC503 ①, ⑤
① 0.4Vp-p
⑤ 0.5Vp-p

Blockschaltbild Video (2)
Video (2) Block Diagram

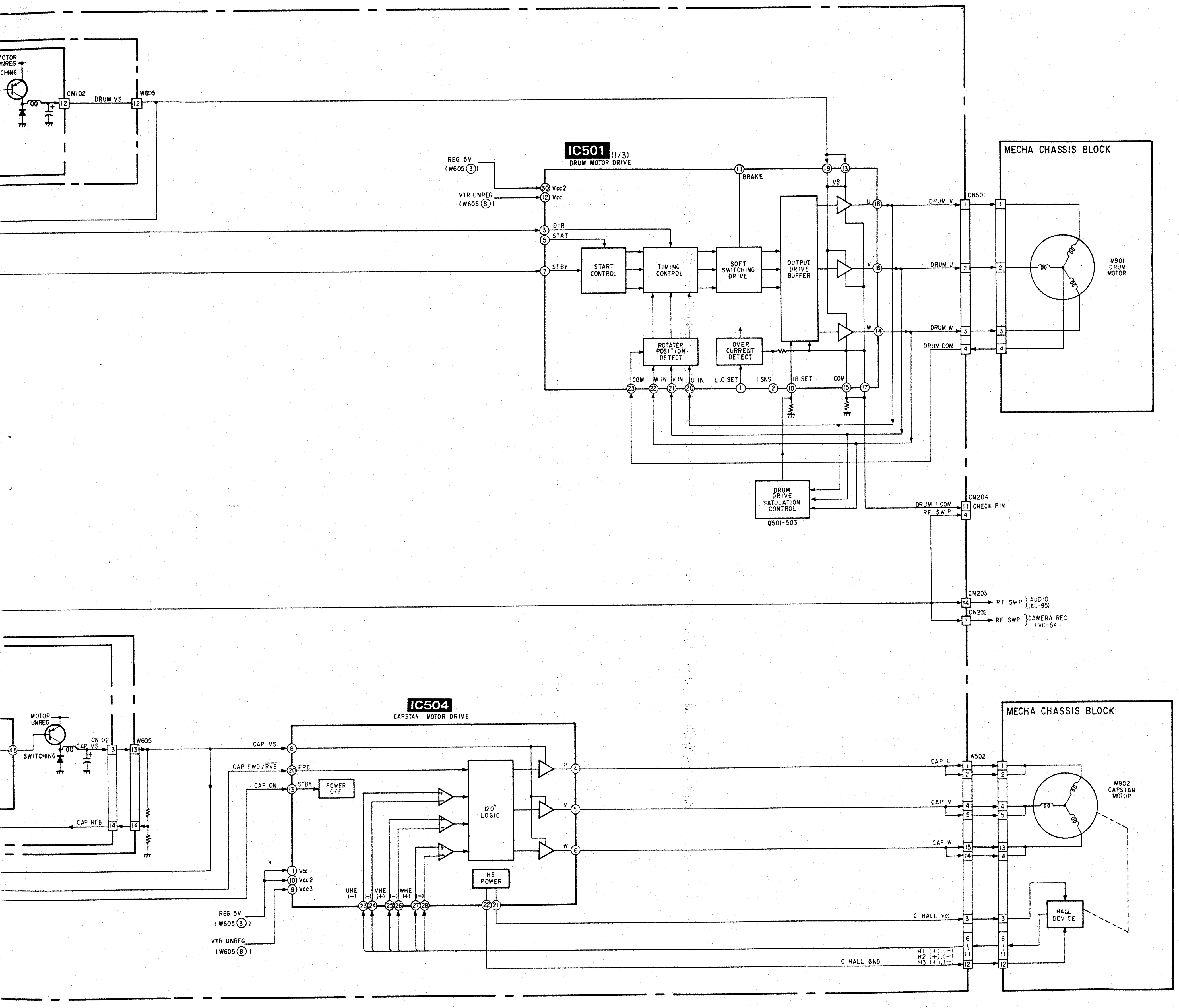

VS-72 BOARD
IC102
CH-1 REC/PB AMP
IC101
CH-2 REC/PB AMP
VIDEO HEAD CH-1A
VIDEO HEAD CH-1B
VIDEO HEAD CH-2A
VIDEO HEAD CH-2B
FLYING ERASE HEAD
CN101
Q105
CH-1A PB MUTING
Q106
CH-1B PB MUTING
Q102
CH-2A PB MUTING
Q101
CH-2B PB MUTING
DUMPING
Q107
CH-1A REC SW
Q108
CH-1B REC SW
Q104
CH-2A REC SW
Q103
CH-2B REC SW
CH-1A REC AMP
CH-1B REC AMP
CH-2A REC AMP
CH-2B REC AMP
RV101 REC C CH-1A
RV103 REC CH-1B
RV102 REC C CH-2A
RV104 REC C CH-2B
IC101 ㊷
IC102 ㊷
Q161
GAIN SWITCH
VCA
ATF SW NORMAL
MULTI
6dB AMP
LOGIC CONTROL
REC Y
REC 1A
REC 1B
PB 1A MUTE
PB 1B MUTE
PB 2A MUTE
PB 2B MUTE
REC AFM
REC C
SP/LP
SL/LP
REC ATF
RP PB MODE
RV111 PB EQ CH-1A
RV113 PB EQ CH-2B
RV112 PB EQ CH-2A
RV114 PB EQ CH-2B
CH-1A HEAD AMP
CH-1B HEAD AMP
CH-2A HEAD AMP
CH-2B HEAD AMP
9dB AMP
-6dB AMP
BPF
MIDDLE TUNE
PCM
MUTING
GCA
RF AGC
DETECT
12dB AMP
2dB AMP
DOC DETECT
RF SWP
Q162
BUFFER
Q165
TIME CONSTANT SWITCH
Q164
TIME CONSTANT SWITCH
VIDEO 5V (W605 ②)
Vcc
Vcc EF
Vcc 1CH
Vcc 2CH
Q109
DIS-CHARGE
C114
C116
C138
C140
Q166
REC Y PB MUTING
TP161
REC Y RF
V: 5 mv/div.
H: 0.1μsec/div.
Q166 Ⓒ REC
0.6Vp-p
2V
IC102 ⑯ PB
PB RF CH-1
PB RF CH-2
4.8Vp-p
IC101 ⑪ REC/PB
IC102 ⑪ REC/PB
2.7Vp-p
H
IC101 ㉘, ㉝ REC
IC102 ㉘, ㉝ REC
Q167
1/2 RF SWP
Q191,193
ERASE OSC
Q192
ERASE CURRENT SWITCH
CN203
REC AFM RF
PB RF
AUDIO (AU-95)
PB 1A MUTE (IC601 ⑥)
REC 1A (IC601 ⑩)
SYSCON
REC Y RF (Q237 Ⓔ)
REC C RF (Q241 Ⓔ)
REC 1B (IC601 ⑧)
PB 1B MUTE (IC601 ④)
RP PB MODE (Q623)
SP/LP (IC205 ⑭)
VIDEO (1)
PB RF
JOG (IC205 ⑥)
DOC PULSE
RF SWP (IC601 ⑳)
SERVO
1/2 RF SWP (IC601 ㉞)
REC ATF (Q543)
PB 2A MUTE (IC601 ⑤)
REC 2A (IC601 ⑨)
ME/MP (CN602 ⑫)
REC 2B (IC601 ⑦)
PB 2B MUTE (IC601 ③)
FE ON (IC601 ㊻)
CN204
PB RF CH1
PB RF CH2
RF SWP
1/2 RF SWP
TEST

Blockschaltbild Servoteil
Servo Block Diagram

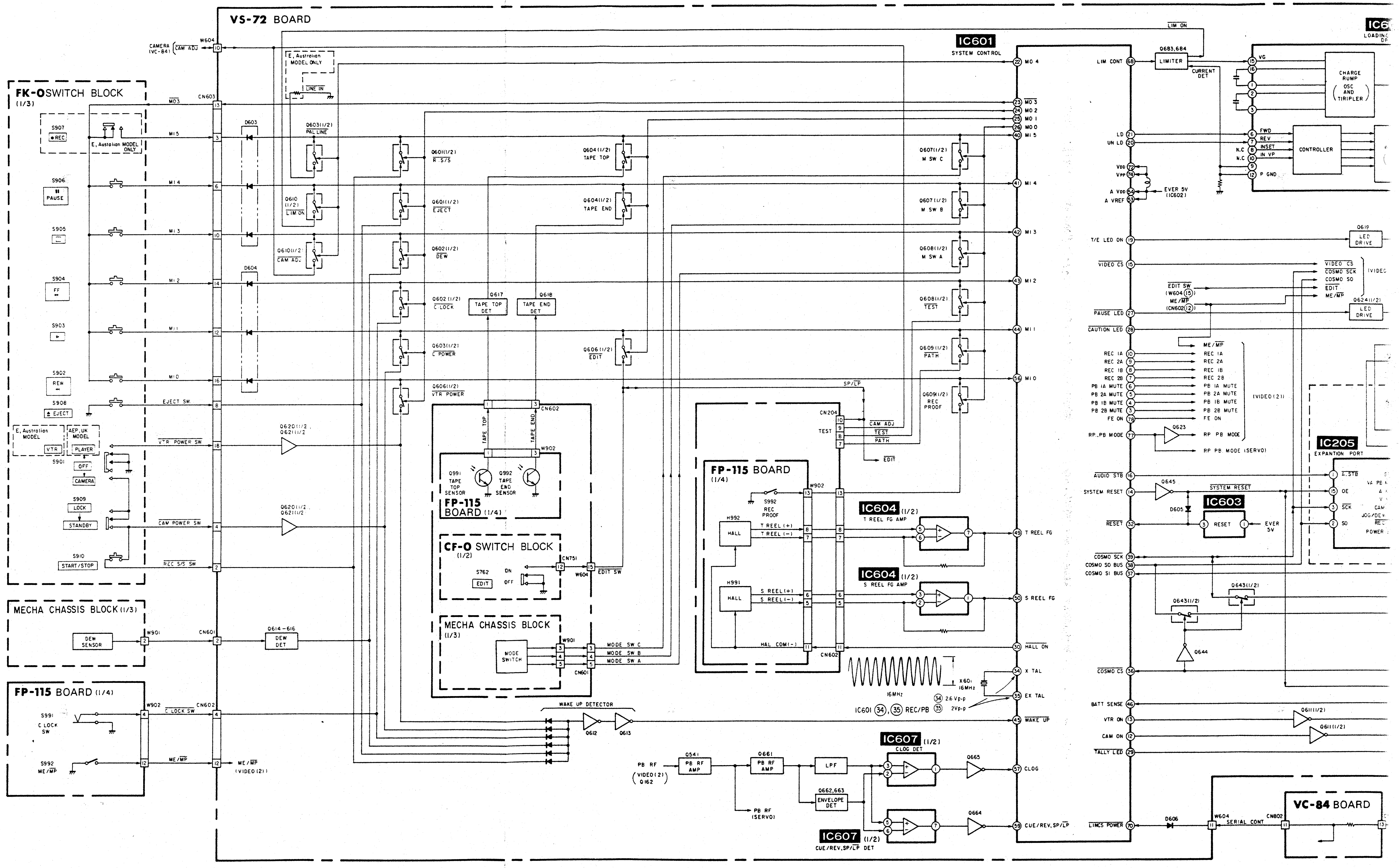


VS-72 BOARD
MECHA CHASSIS BLOCK
DRUM
PG
FG
CN501
LPF
IC502 (1/2)
PRE
COMP
LEVEL CHIPT
DC BIAS
IC502 ①
IC502 ⑩
0.05Vp-p
5Vp-p
4.4msec
IC502 ① ⑩ REC/PB
D FG
D PG
RV602 SW POS ADJ
27msec
IC502 ⑨ REC/PB
IC601 SERVO
AVDD
AVRBP
DRUM D/A
DRUM FG
DRUM PG
SW POS ADJ
DRUM FWD/RVS
DRUM ON
DRUM STEP
SYSTEM SYNC
COMPOSITE SYNC
JOG VD
CAP FG (SERVO)
CAP FG (HMS COUNTER)
1/2 RF SWP
RF SWP
ATF ERROR
RP PB MODE
SEL 1
SEL 2
CAP PWM
CAP ERH
CAP FWD/RVS
CAP ON
IC602
5V REG
IC501 (1/3)
R503
C501
R504,505
1/2 VDD
W605
DC/DC CONV (DD-30 BOARD)
CN102
DRUM ERROR
PWM MOD
TRAIANGLE WAVE
MOTOR UNREG
SWITCHING
DRUM VS
2.4Vp-p
H
IC601 58 REC/PB
CN204
CHECK PIN
CAP FG
CAPSTAN FG
+B
REG 5V
W605 ③
W502
C FG (+)
C FG (-)
RV502 CFG OFF SET ADJ
0.9msec
IC502 ⑫ REC/PB
COMP SYNC
JOG VD
RF SWP
VIDEO (1)
1/2 RF SWP
RF SWP
VIDEO (2)
2V
IC601 80 REC/PB
IC604
CAP PWM LPF
Q573
LIMITER
DRUM VS
Q571-572
CORRELATION LIMIT DETECTOR
CAP VS
CAP ERROR
TRIANGLE OSCILLATOR
CAP NFB
CAP VS
CAP FWD/RVS
CAP ON
REG 5V (W605 ③)
VTR UNREG (W605 ⑧)
IC505
ATF SERVO
PB RF (SYSCON) (Q661)
SP/LP VIDEO (1) (IC205 ⑭)
SP/LP
GAIN CONT
PB RF (Q162)
Q541
PB RF BUFFER
LPF
PRE AMP
GCA
BALANCED MODULATOR
31H BPF
1H BPF
PEAK DET
SAMPLING HOLD
SCHMITT
VREP
AMP
ATF ERROR
CH1/CH2
TS A
RP PB MODE
VIDEO (2)
REC ATF RF
Q542,543
REC ATF LPF
REC ATF
1/58 1/50 1/36 1/40
OSC
X50 5.85938MHz
REG 5V (W605 ③)
D Vcc
A Vcc
3Vp-p
5.85MHz
IC505 ⑭ REC/PB
4Vp-p
5.85MHz
IC505 ⑯ REC/PB
CN204
REC C CHECK

Blockschaltbild Servoteil
Servo Block Diagram

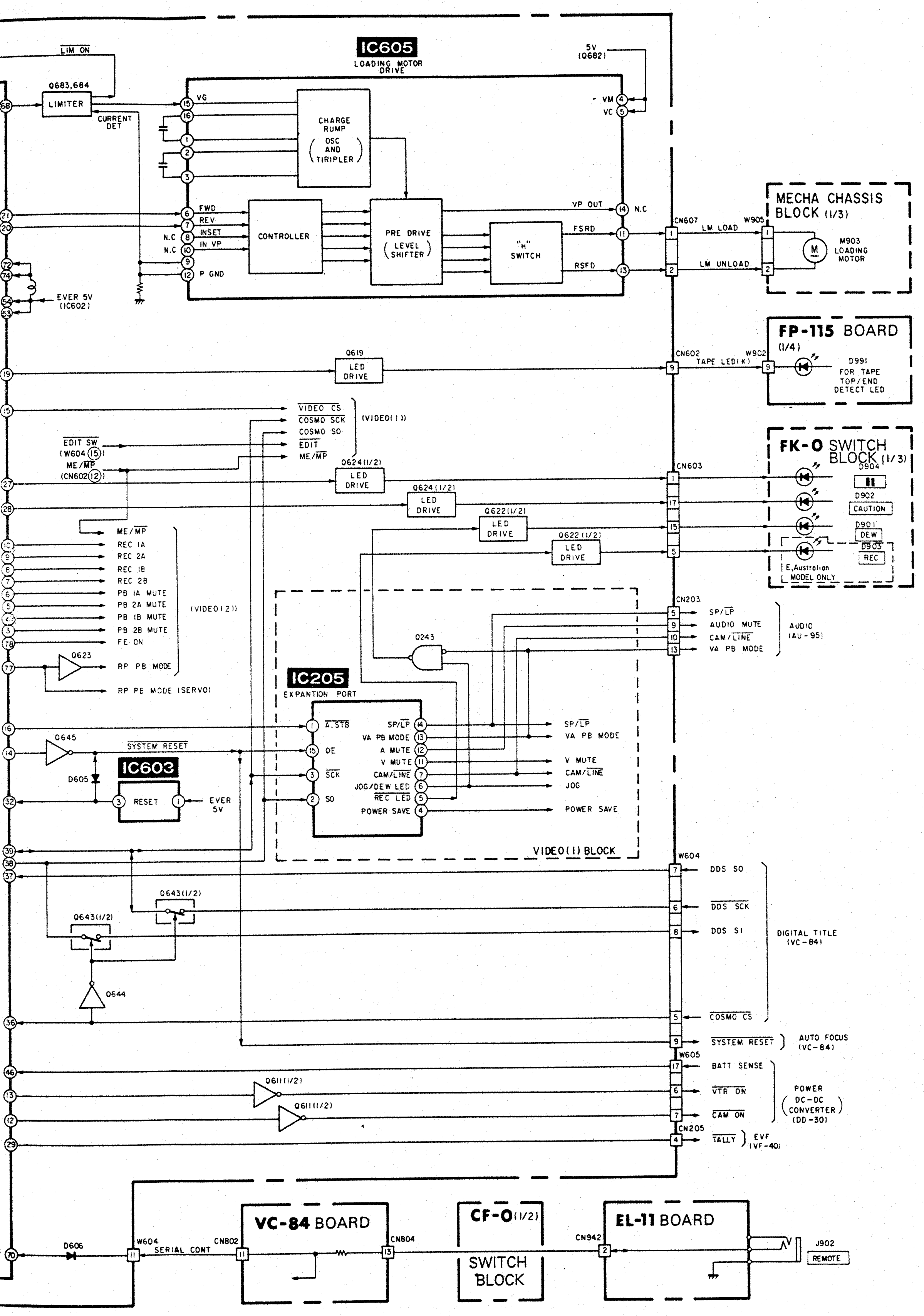

CN102
DRUM VS
W605
IC501 (1/3)
DRUM MOTOR DRIVE
REG 5V (W605 ③)
VTR UNREG (W605 ⑧)
Vcc2
Vcc
BRAKE
VS
DIR
STAT
STBY
START CONTROL
TIMING CONTROL
SOFT SWITCHING DRIVE
OUTPUT DRIVE BUFFER
ROTATER POSITION DETECT
OVER CURRENT DETECT
COM
W IN
V IN
U IN
L.C SET
I SNS
IB SET
I COM
U
V
W
DRUM V
DRUM U
DRUM W
DRUM COM
CN501
MECHA CHASSIS BLOCK
M901 DRUM MOTOR
DRUM DRIVE SATULATION CONTROL
Q501-503
CN204
DRUM I COM
RF SWP
CHECK PIN
CN203
RF SWP } AUDIO (AU-95)
CN202
RF SWP } CAMERA REC (VC-84)
MOTOR UNREG
SWITCHING
CAP VS
CN102
W605
CAP NFB
IC504
CAPSTAN MOTOR DRIVE
CAP VS
CAP FWD/RVS
FRC
CAP ON
STBY
POWER OFF
120° LOGIC
HE POWER
Vcc1
Vcc2
Vcc3
REG 5V (W605 ③)
VTR UNREG (W605 ⑧)
UHE (+)
(−)
VHE (+)
(−)
WHE (+)
(−)
U
V
W
CAP U
CAP V
CAP W
W502
C HALL Vcc
H1 (+),(−)
H2 (+),(−)
H3 (+),(−)
C HALL GND
MECHA CHASSIS BLOCK
M902 CAPSTAN MOTOR
HALL DEVICE

Blockschaltbild Systemsteuerung
System Control Block Diagram


VS-72 BOARD
FK-O SWITCH BLOCK (1/3)
S907 ● REC
E, Australian MODEL ONLY
S906 PAUSE
S905
S904 FF
S903
S902 REW
S908 ▲ EJECT
E, Australian MODEL
AEP, UK MODEL
VTR
PLAYER
S901
OFF
CAMERA
S909 LOCK
STANDBY
S910 START/STOP
MO3
MI5
MI4
MI3
MI2
MI1
MI0
EJECT SW
VTR POWER SW
CAM POWER SW
REC S/S SW
CN603
W604
CAMERA (VC-84) CAM ADJ
D603
D604
Q603(1/2) PAL LINE
LINE IN
Q610 (1/2) LIM ON
Q610(1/2) CAM ADJ
Q601(1/2) R S/S
Q601(1/2) EJECT
Q602(1/2) DEW
Q602(1/2) C LOCK
Q603(1/2) C POWER
Q606(1/2) VTR POWER
Q604(1/2) TAPE TOP
Q604(1/2) TAPE END
Q606(1/2) EDIT
Q617 TAPE TOP DET
Q618 TAPE END DET
Q607(1/2) M SW C
Q607(1/2) M SW B
Q608(1/2) M SW A
Q608(1/2) TEST
Q609(1/2) PATH
Q609(1/2) REC PROOF
SP/LP
Q620(1/2), Q621(1/2)
MECHA CHASSIS BLOCK (1/3)
DEW SENSOR
W901
CN601
Q614-616 DEW DET
FP-115 BOARD (1/4)
S991 C LOCK SW
S992 ME/MP
W902
CN602
C LOCK SW
ME/MP
ME/MP (VIDEO(2))
CN602
TAPE TOP
TAPE END
Q991 TAPE TOP SENSOR
Q992 TAPE END SENSOR
CF-O SWITCH BLOCK (1/2)
S762 EDIT
ON
OFF
CN751
EDIT SW
MODE SWITCH
MODE SW C
MODE SW B
MODE SW A
CN204
TEST
CAM ADJ
PATH
EDIT
S992 REC PROOF
H992 HALL
T REEL (+)
T REEL (-)
H991 HALL
S REEL (+)
S REEL (-)
HAL COM(-)
IC604 (1/2) T REEL FG AMP
IC604 (1/2) S REEL FG AMP
WAKE UP DETECTOR
Q612
Q613
16MHz
X601 16MHz
IC601 (34), (35) REC/PB (34) 2.6 Vp-p (35) 2Vp-p
PB RF (VIDEO(2) Q162)
Q541 PB RF AMP
Q661 PB RF AMP
LPF
Q662,663 ENVELOPE DET
PB RF (SERVO)
IC607 (1/2) CLOG DET
Q665
Q664
IC607 (1/2) CUE/REV,SP/LP DET
IC601 SYSTEM CONTROL
MO 4
MO 3
MO 2
MO 1
MO 0
MI 5
MI 4
MI 3
MI 2
MI 1
MI 0
T REEL FG
S REEL FG
HALL ON
X TAL
EX TAL
WAKE UP
CLOG
CUE/REV,SP/LP
LIM ON
LIM CONT
Q683,684 LIMITER
CURRENT DET
LD
UN LD
VDD
VPP
A VDD
A VREF
EVER 5V (IC602)
VG
CHARGE RUMP
OSC AND TIRIPLER
FWD
REV
INSET
IN VP
P GND
N.C
CONTROLLER
T/E LED ON
Q619 LED DRIVE
VIDEO CS
VIDEO CS
COSMO SCK
COSMO SO
EDIT
ME/MP
(VIDEO
EDIT SW (W604(15))
ME/MP (CN602(12))
Q624(1/2) LED DRIVE
PAUSE LED
CAUTION LED
REC 1A
REC 2A
REC 1B
REC 2B
PB 1A MUTE
PB 2A MUTE
PB 1B MUTE
PB 2B MUTE
FE ON
(VIDEO(2))
RP.PB MODE
Q623
RP PB MODE
RP PB MODE (SERVO)
IC205 EXPANTION PORT
AUDIO STB
SYSTEM RESET
Q645
SYSTEM RESET
IC603
D605
RESET
EVER 5V
A.STB
OE
SCK
SO
COSMO SCK
COSMO SO BUS
COSMO SI BUS
Q643(1/2)
Q644
COSMO CS
BATT SENSE
VTR ON
CAM ON
TALLY LED
Q611(1/2)
LINCS POWER
D606
W604
SERIAL CONT
CN802
VC-84 BOARD
IC6
LOADING

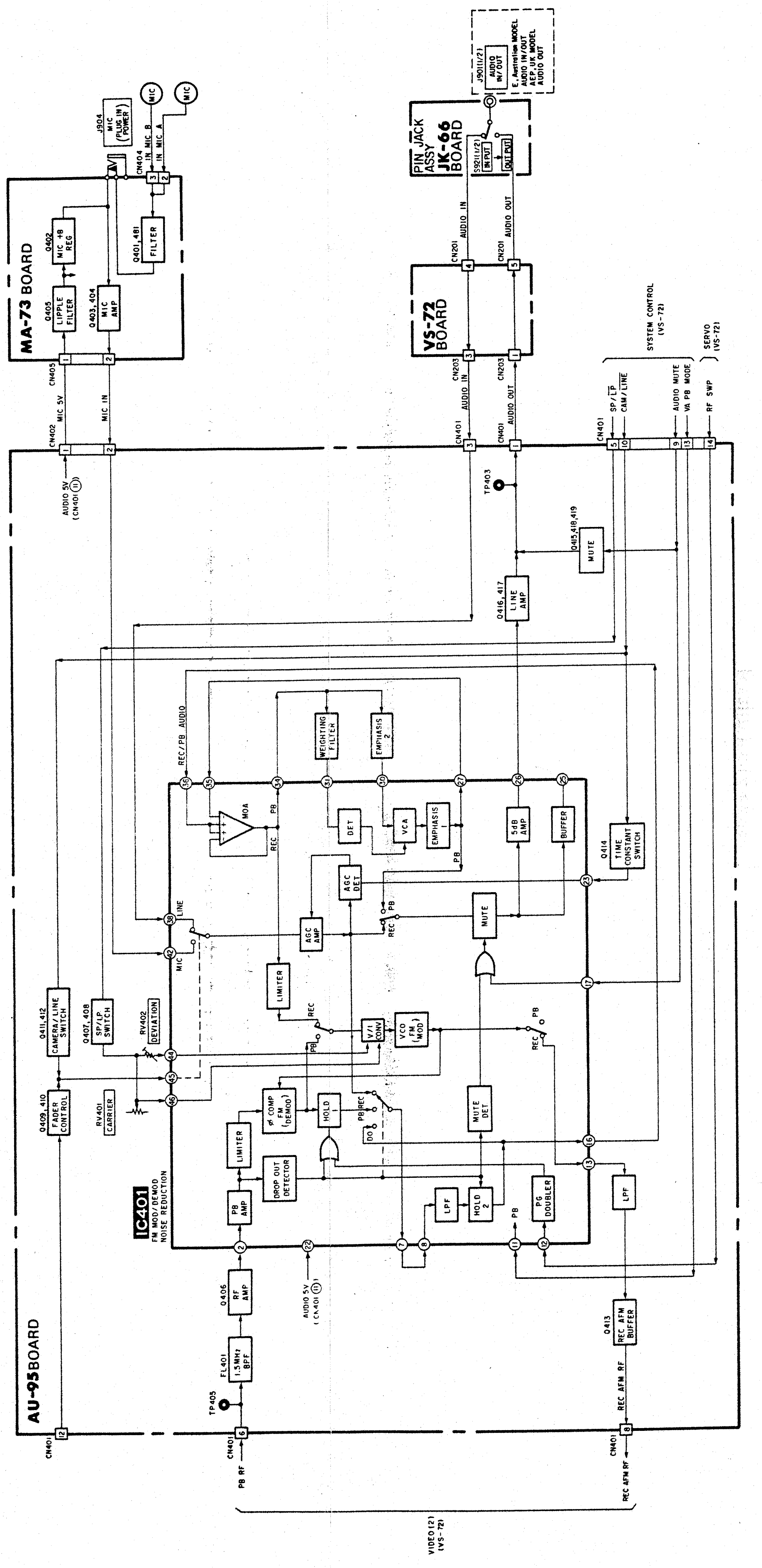
Blockschaltbild Systemsteuerung

System Control Block Diagram


IC605
LOADING MOTOR DRIVE
LIM ON
Q683,684
LIMITER
CURRENT DET
VG
CHARGE RUMP
(OSC AND TIRIPLER)
5V (Q682)
VM
VC
FWD
REV
INSET
IN VP
P GND
N.C
CONTROLLER
PRE DRIVE
(LEVEL SHIFTER)
"H" SWITCH
VP OUT
FSRD
RSFD
EVER 5V (IC602)
CN607
LM LOAD
LM UNLOAD
W905
MECHA CHASSIS BLOCK (1/3)
M903 LOADING MOTOR
Q619
LED DRIVE
CN602
TAPE LED(K)
W902
FP-115 BOARD (1/4)
D991 FOR TAPE TOP/END DETECT LED
VIDEO CS
COSMO SCK
COSMO SO
EDIT
ME/MP
(VIDEO(1))
EDIT SW (W604 ⑮)
ME/MP (CN602 ⑫)
Q624(1/2)
LED DRIVE
Q622(1/2)
CN603
FK-0 SWITCH BLOCK (1/3)
D904
D902 CAUTION
D901 DEW
D903 REC
E,Australian MODEL ONLY
ME/MP
REC 1A
REC 2A
REC 1B
REC 2B
PB 1A MUTE
PB 2A MUTE
PB 1B MUTE
PB 2B MUTE
FE ON
(VIDEO(2))
Q623
RP PB MODE
RP PB MODE (SERVO)
CN203
SP/LP
AUDIO MUTE
CAM/LINE
VA PB MODE
AUDIO (AU-95)
Q243
IC205
EXPANTION PORT
A. STB
OE
SCK
SO
SP/LP
VA PB MODE
A MUTE
V MUTE
CAM/LINE
JOG/DEW LED
REC LED
POWER SAVE
JOG
Q645
SYSTEM RESET
IC603
D605
RESET
EVER 5V
VIDEO(1) BLOCK
W604
DDS SO
DDS SCK
DDS SI
DIGITAL TITLE (VC-84)
Q643(1/2)
Q644
COSMO CS
SYSTEM RESET
AUTO FOCUS (VC-84)
W605
BATT SENSE
VTR ON
CAM ON
POWER DC-DC CONVERTER (DD-30)
Q611(1/2)
CN205
TALLY
EVF (VF-40)
D606
W604
SERIAL CONT
CN802
VC-84 BOARD
CN804
CF-0 (1/2)
SWITCH BLOCK
CN942
EL-11 BOARD
J902
REMOTE

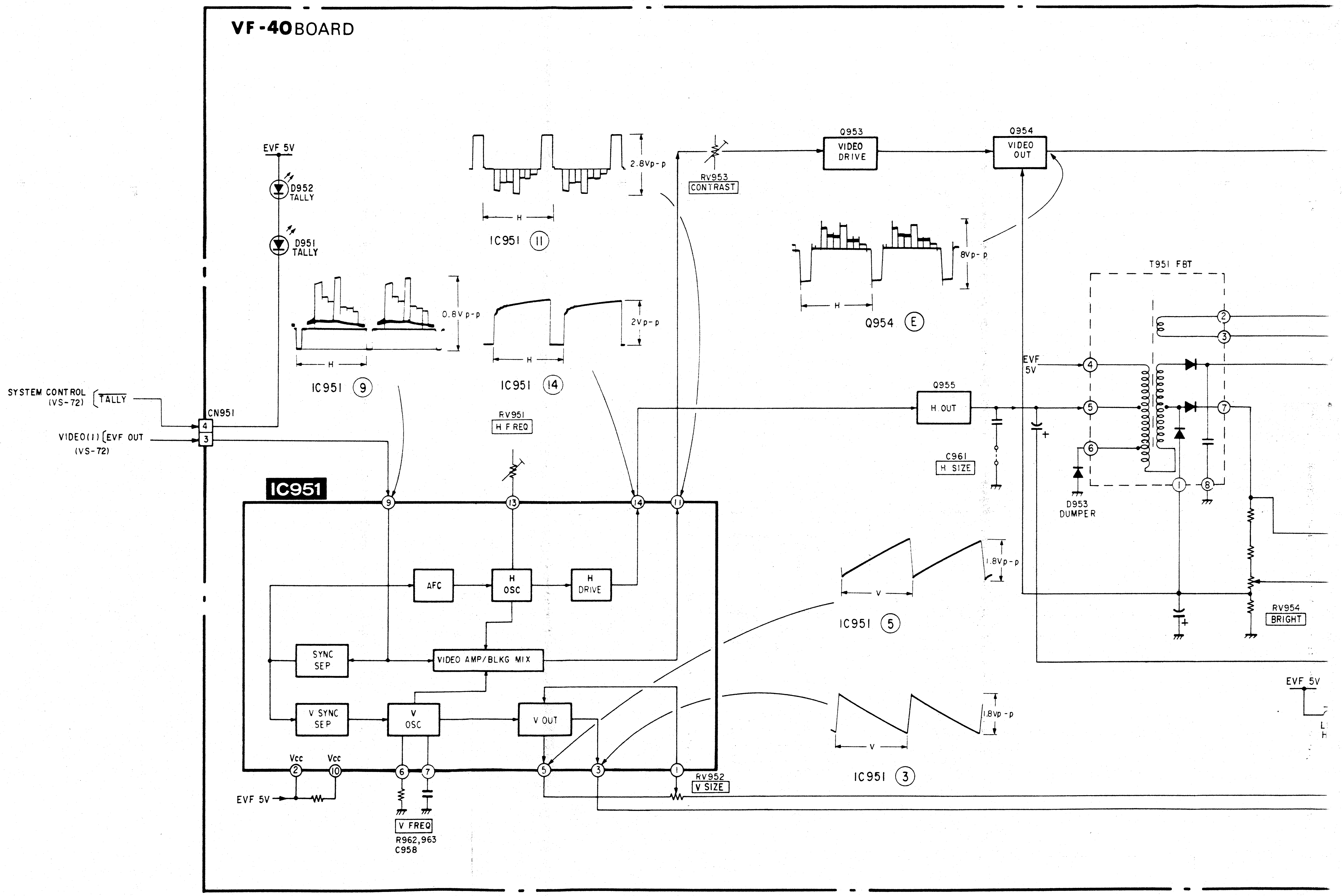
Blockschaltbild Audio

Audio Block Diagram

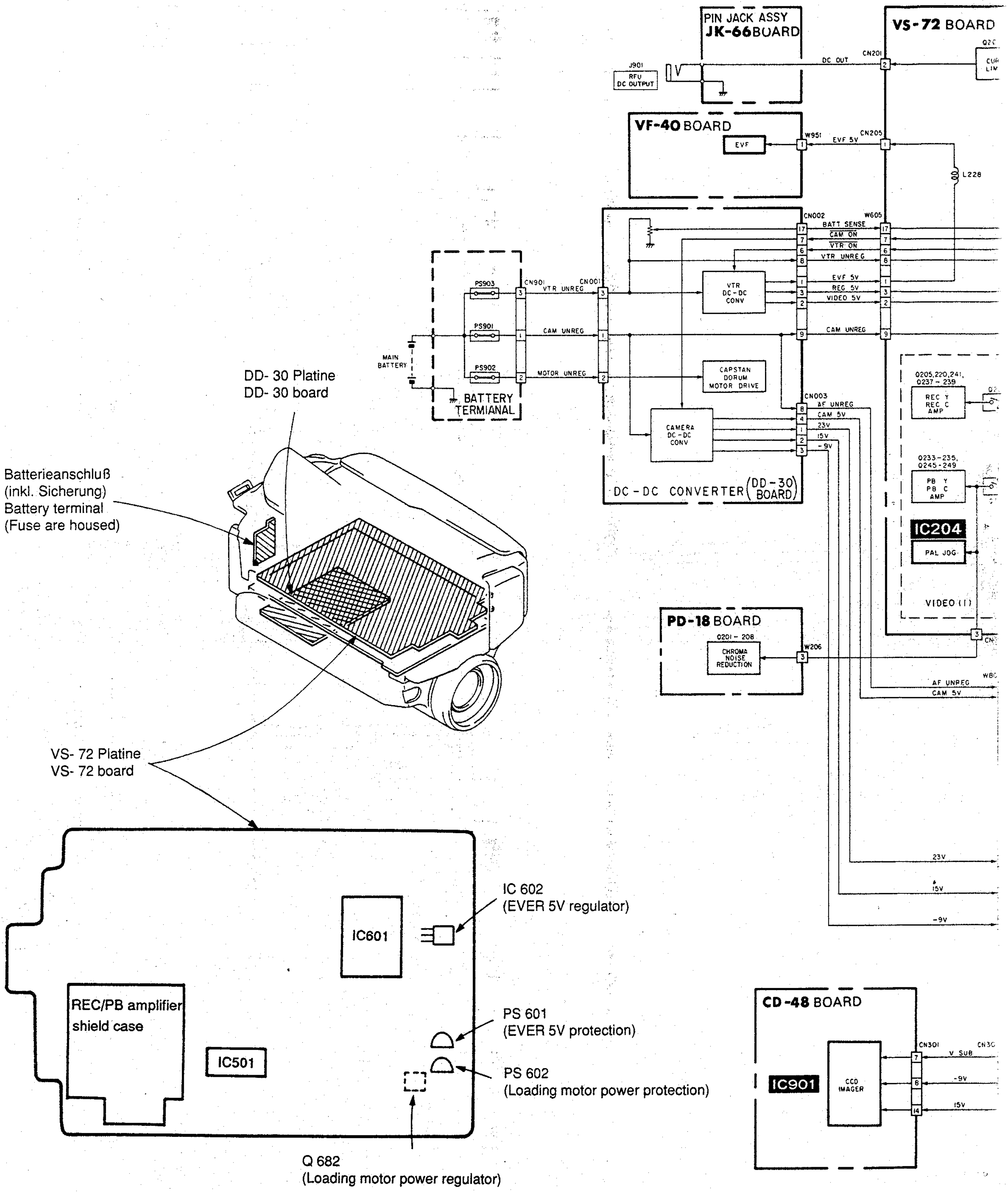

J901(1/2)
AUDIO IN/OUT
E, Australian MODEL AUDIO IN/OUT
AEP, UK MODEL AUDIO OUT
PIN JACK ASSY JK-66 BOARD
S921(1/2) IN PUT
OUT PUT
MIC
J904 MIC (PLUG IN POWER)
CN404
IN MIC B
IN MIC A
MA-73 BOARD
Q402 MIC 4B REG
Q401,401 FILTER
Q405 LIPPLE FILTER
Q403,404 MIC AMP
CN405
CN402
MIC 5V
MIC IN
CN201 AUDIO IN
CN201 AUDIO OUT
VS-72 BOARD
CN203 AUDIO IN
CN203 AUDIO OUT
CN401
SYSTEM CONTROL (VS-72)
SERVO (VS-72)
SP/LP
CAM/LINE
AUDIO MUTE
VA PB MODE
RF SWP
AUDIO 5V (CN401 ⑪)
TP403
Q415,418,419 MUTE
Q416,417 LINE AMP
REC/PB AUDIO
WEIGHTING FILTER
EMPHASIS 2
MOA
PB
REC
DET
VCA
EMPHASIS 1
54dB AMP
BUFFER
Q414 TIME CONSTANT SWITCH
AGC DET
AGC AMP
LINE
MIC
MUTE
LIMITER
Q411,412 CAMERA/LINE SWITCH
Q407,408 SP/LP SWITCH
RV402 DEVIATION
V/I CONV
VCO FM MOD
Q409,410 FADER CONTROL
RV401 CARRIER
COMP FM DEMOD
HOLD
MUTE DET
LIMITER
DROP OUT DETECTOR
IC401 FM MOD/DEMOD NOISE REDUCTION
PB AMP
LPF
HOLD 2
PG DOUBLER
Q406 RF AMP
AUDIO 5V (CN401 ⑪)
FL401 1.5MHz BPF
TP405
AU-95 BOARD
Q413 REC AFM BUFFER
REC AFM RF
PB RF
VIDEO(2) (VS-72)

Blockschaltbild Sucher
View Finder Block Diagram

Blockschal
View Finde


VF-40 BOARD
EVF 5V
D952 TALLY
D951 TALLY
SYSTEM CONTROL (VS-72)
TALLY
VIDEO(1) EVF OUT (VS-72)
CN951
4
3
IC951 ⑨
0.8Vp-p
H
IC951 ⑪
2.8Vp-p
IC951 ⑭
2Vp-p
RV951 H FREQ
RV953 CONTRAST
Q953 VIDEO DRIVE
Q954 VIDEO OUT
Q954 Ⓔ
8Vp-p
T951 FBT
EVF 5V
Q955 H OUT
C961 H SIZE
D953 DUMPER
RV954 BRIGHT
IC951
AFC
H OSC
H DRIVE
SYNC SEP
VIDEO AMP/BLKG MIX
V SYNC SEP
V OSC
V OUT
Vcc
EVF 5V
V FREQ
R962,963
C958
RV952 V SIZE
IC951 ⑤
1.8Vp-p
V
IC951 ③
1.8Vp-p
EVF 5V

Blockschaltbild Netzteil
Power Block Diagram


PIN JACK ASSY
JK-66BOARD
J901
RFU
DC OUTPUT
DC OUT
CN201
VS-72 BOARD
VF-40 BOARD
EVF
W951
EVF 5V
CN205
L228
CN002
W605
BATT SENSE
CAM ON
VTR ON
VTR UNREG
EVF 5V
REG 5V
VIDEO 5V
CAM UNREG
PS903
PS901
PS902
CN901
CN001
VTR UNREG
CAM UNREG
MOTOR UNREG
MAIN BATTERY
BATTERY TERMIANAL
VTR DC-DC CONV
CAPSTAN DORUM MOTOR DRIVE
CAMERA DC-DC CONV
CN003
AF UNREG
CAM 5V
23V
15V
-9V
DC-DC CONVERTER (DD-30 BOARD)
0205,220,241, 0237 - 239
REC Y REC C AMP
0233-235, 0245-249
PB Y PB C AMP
IC204
PAL JOG
VIDEO (I)
PD-18 BOARD
0201 - 208
CHROMA NOISE REDUCTION
W206
AF UNREG
CAM 5V
23V
15V
-9V
CD-48 BOARD
IC901
CCD IMAGER
CN301
V SUB
-9V
15V
IC601
REC/PB amplifier shield case
IC501

DD- 30 Platine
DD- 30 board

Batterieanschluß
(inkl. Sicherung)
Battery terminal
(Fuse are housed)

VS- 72 Platine
VS- 72 board

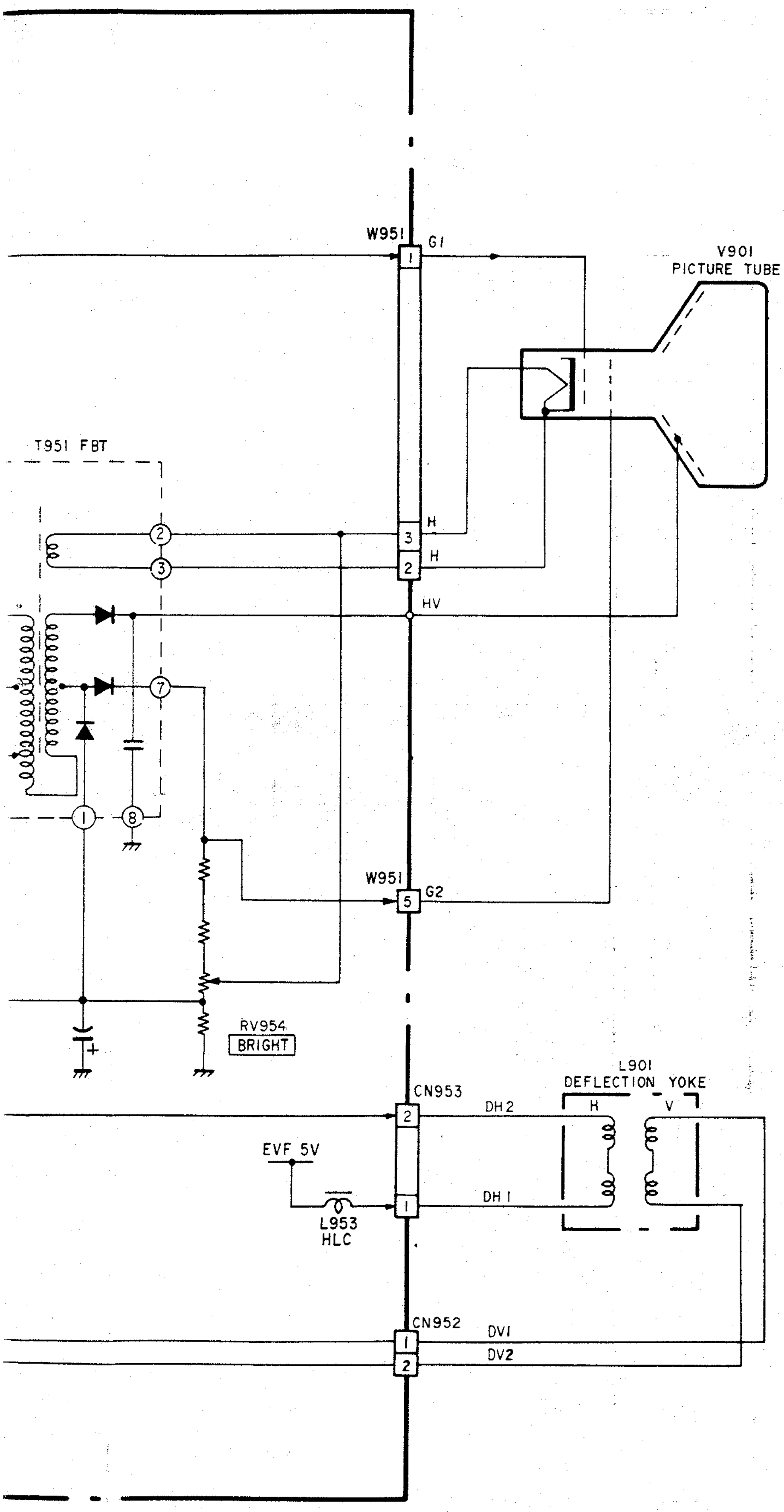
IC 602
(EVER 5V regulator)

PS 601
(EVER 5V protection)

PS 602
(Loading motor power protection)

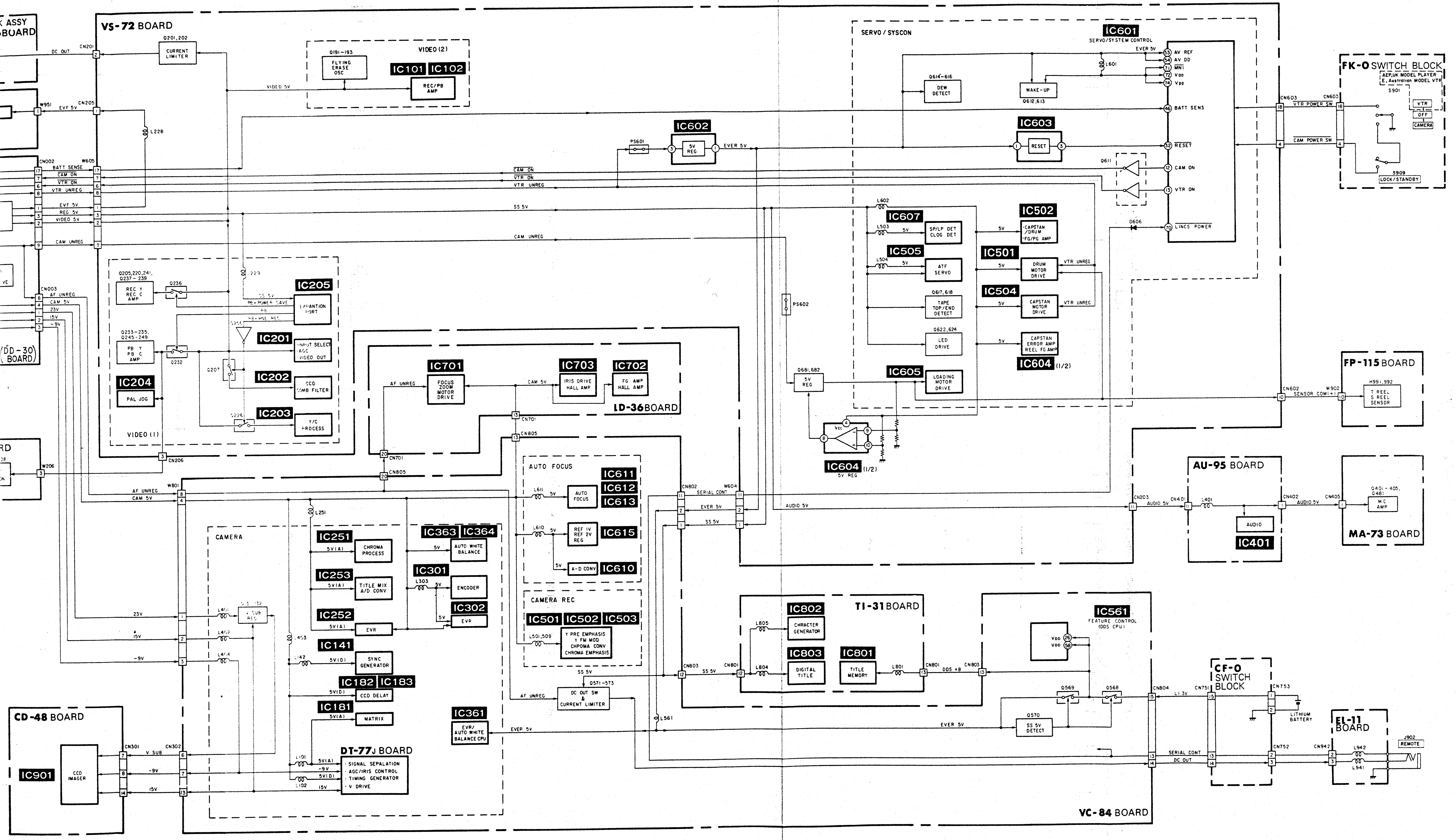
Q 682
(Loading motor power regulator)

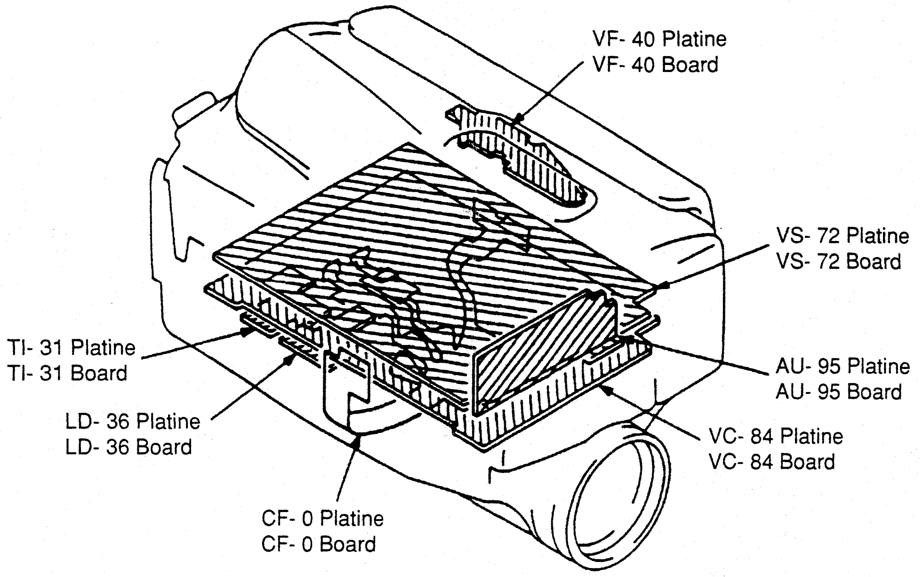
Blockschaltbild Sucher
View Finder Block Diagram

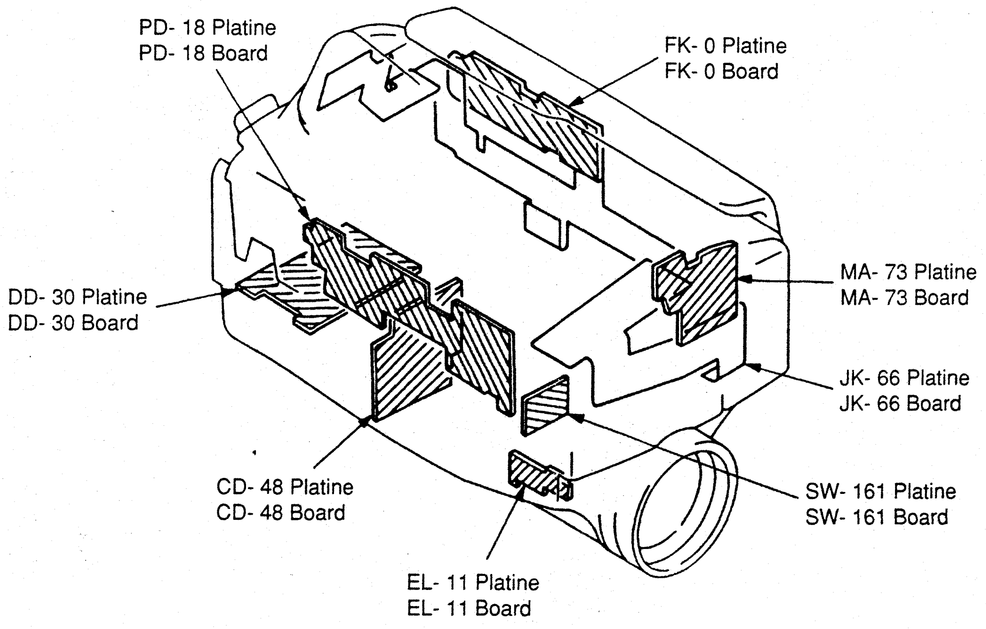

W951
G1
V901
PICTURE TUBE
T951 FBT
2
3
H
H
HV
7
1
8
W951
5
G2
RV954
BRIGHT
L901
DEFLECTION YOKE
H
V
CN953
2
DH2
EVF 5V
1
DH1
L953
HLC
CN952
DV1
DV2
1
2

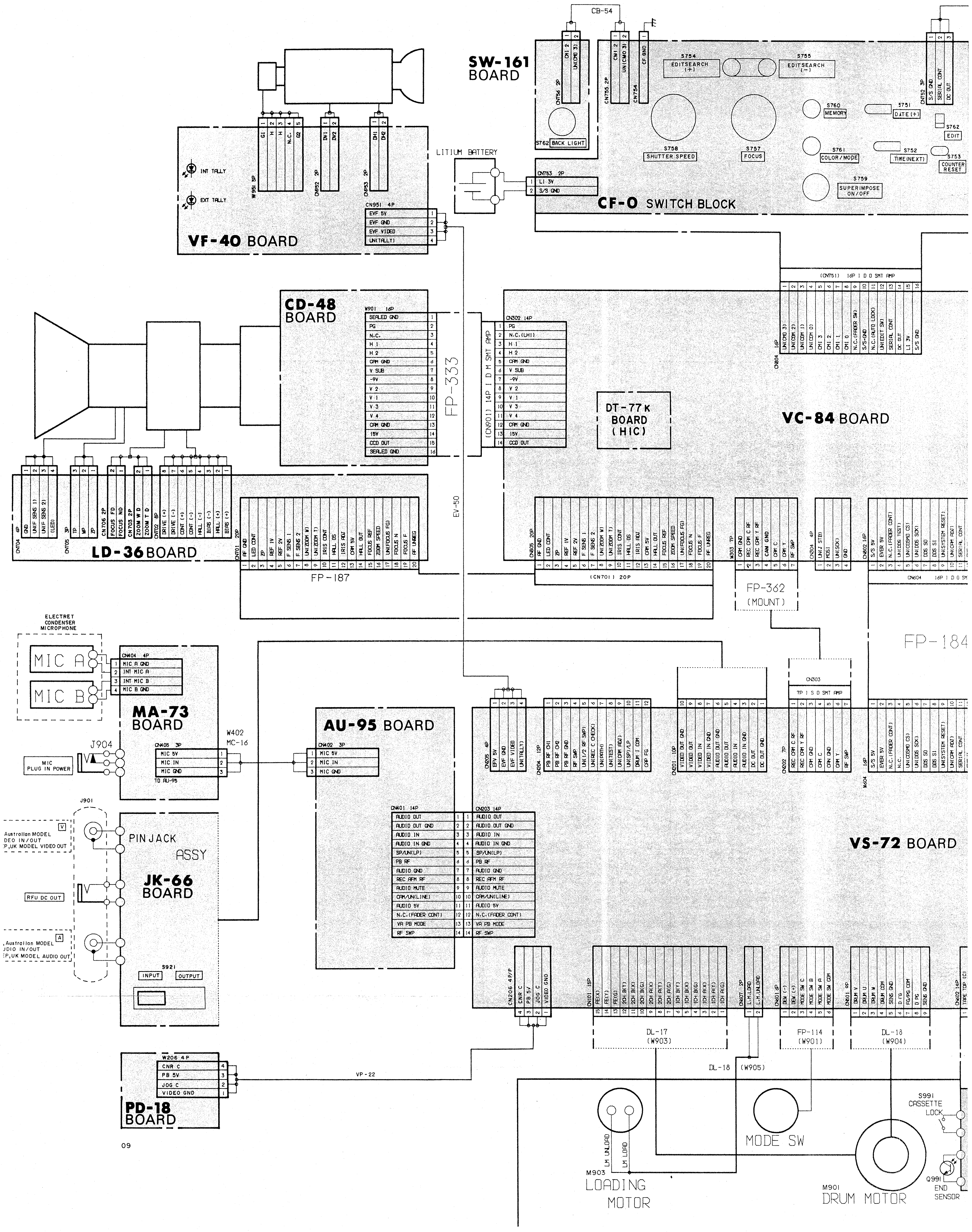
Blockschaltbild Netzteil

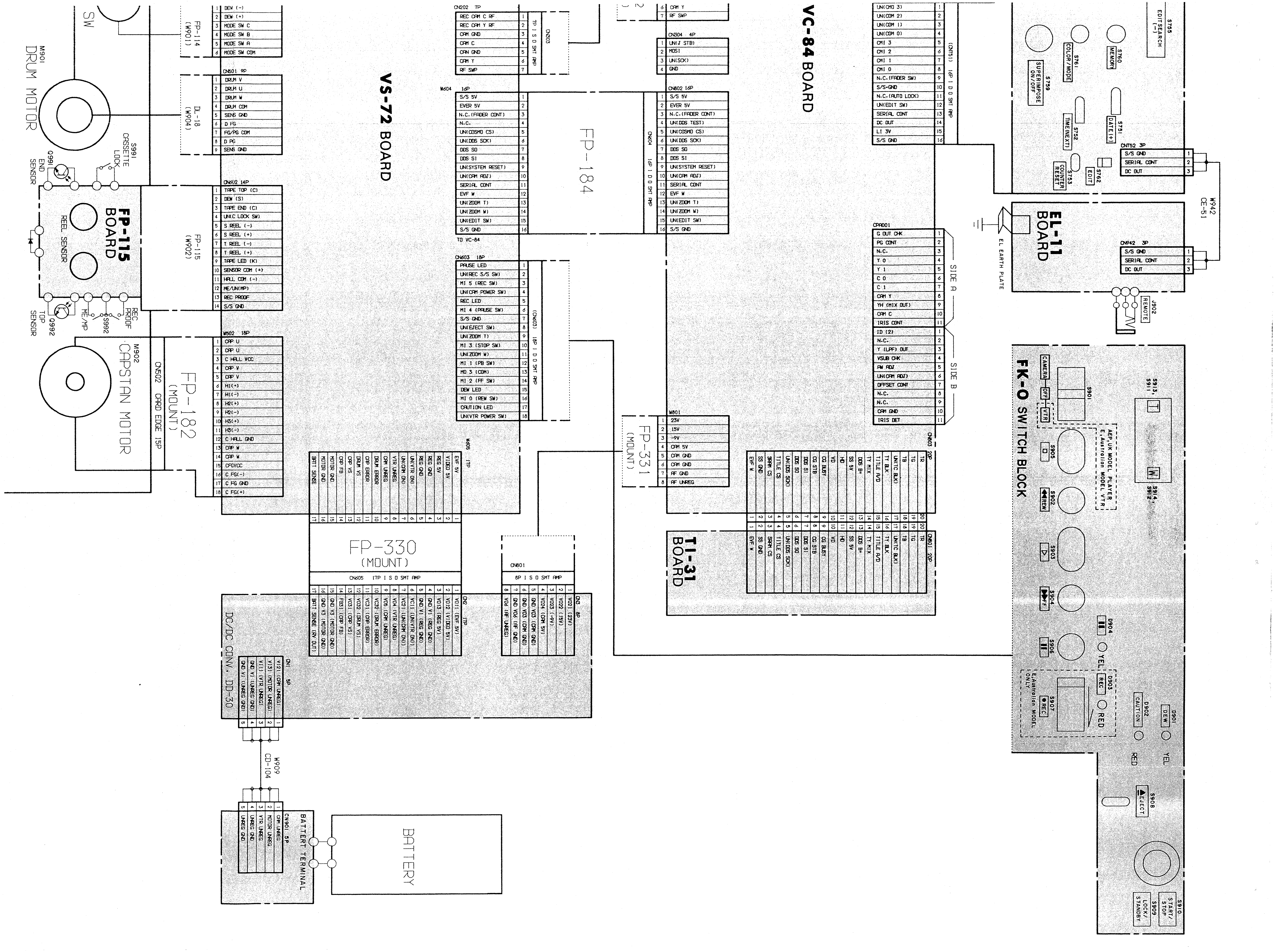
Power Block Diagram


VS-72 BOARD
VIDEO (2)
FLYING ERASE OSC
REC/PB AMP
IC101
IC102
CURRENT LIMITER
Q201,202
DC OUT
CN201
CN205
EVF 5V
W951
L228
VIDEO 5V
BATT SENSE
CAM ON
VTR ON
VTR UNREG
REG 5V
VIDEO 5V
CAM UNREG
SS 5V
CN002
W605
CN003
AF UNREG
CAM 5V
23V
15V
-9V
IC205
EXPANTION PORT
IC201
INPUT SELECT AGC VIDEO OUT
IC202
CCD COMB FILTER
IC203
Y/C PROCESS
IC204
PAL JOG
REC Y REC C AMP
PB Y PB C AMP
Q236
Q232
Q207
VIDEO (1)
CN206
W206
IC602
5V REG
PS601
EVER 5V
IC701
FOCUS ZOOM MOTOR DRIVE
IC703
IRIS DRIVE HALL AMP
IC702
FG AMP HALL AMP
LD-36BOARD
CN701
CN805
AUTO FOCUS
IC611
IC612
IC613
AUTO FOCUS
REF 1V REF 2V REG
IC615
A-D CONV
IC610
CAMERA REC
IC501
IC502
IC503
Y PRE EMPHASIS Y FM MOD CHROMA CONV CHROMA EMPHASIS
CAMERA
IC251
CHROMA PROCESS
IC253
TITLE MIX A/D CONV
IC252
EVR
IC141
SYNC GENERATOR
IC182
IC183
CCD DELAY
IC181
MATRIX
IC363
IC364
AUTO WHITE BALANCE
IC301
ENCODER
IC302
EVR
IC361
EVR/ AUTO WHITE BALANCE CPU
DT-77J BOARD
SIGNAL SEPALATION
AGC/IRIS CONTROL
TIMING GENERATOR
V DRIVE
V SUB REG
CD-48 BOARD
IC901
CCD IMAGER
CN301
CN302
V SUB
DC OUT SW & CURRENT LIMITER
Q571-573
SERVO / SYSCON
IC601
SERVO/SYSTEM CONTROL
AV REF
AV DD
MNI
VDD
VPP
BATT SENS
RESET
CAM ON
VTR ON
LINCS POWER
DEW DETECT
Q614-616
WAKE-UP
Q612,613
L601
IC603
RESET
Q611
D606
IC607
SP/LP DET CLOG DET
IC505
ATF SERVO
TAPE TOP/END DETECT
Q617,618
LED DRIVE
Q622,624
IC605
LOADING MOTOR DRIVE
IC502
CAPSTAN /DRUM FG/PG AMP
IC501
DRUM MOTOR DRIVE
IC504
CAPSTAN MOTOR DRIVE
CAPSTAN ERROR AMP REEL FG AMP
IC604 (1/2)
PS602
5V REG
Q681,682
IC604 (1/2) 5V REG
FK-O SWITCH BLOCK
AEP,UK MODEL PLAYER E, Australian MODEL VTR
S901
VTR
OFF
CAMERA
S909
LOCK/STANDBY
VTR POWER SW
CAM POWER SW
CN603
FP-115 BOARD
T REEL S REEL SENSOR
H991,992
SENSOR COM
CN602
W902
AU-95 BOARD
AUDIO
IC401
AUDIO 5V
MA-73 BOARD
MIC AMP
Q401-405, 481
SERIAL CONT
CN802
W604
TI-31 BOARD
IC802
CHRACTER GENERATOR
IC803
DIGITAL TITLE
IC801
TITLE MEMORY
DDS +B
IC561
FEATURE CONTROL (DDS CPU)
Q569
Q568
Q570
SS 5V DETECT
L561
CF-O SWITCH BLOCK
LITHIUM BATTERY
EL-11 BOARD
J902
REMOTE
DC OUT
VC-84 BOARD


VF- 40 Platine
VF- 40 Board
VS- 72 Platine
VS- 72 Board
TI- 31 Platine
TI- 31 Board
AU- 95 Platine
AU- 95 Board
LD- 36 Platine
LD- 36 Board
VC- 84 Platine
VC- 84 Board
CF- 0 Platine
CF- 0 Board

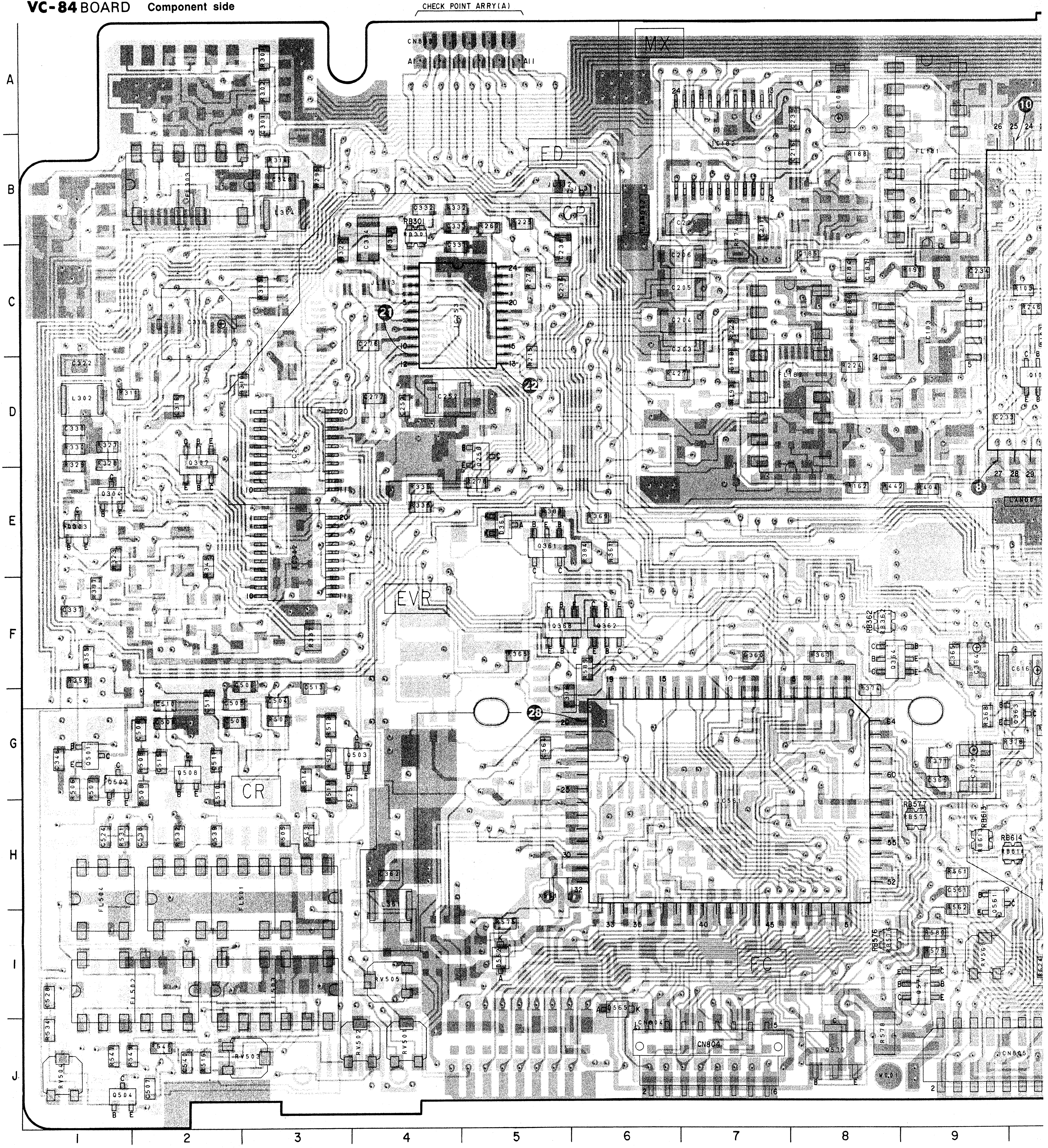

PD- 18 Platine
PD- 18 Board
FK- 0 Platine
FK- 0 Board
MA- 73 Platine
MA- 73 Board
DD- 30 Platine
DD- 30 Board
JK- 66 Platine
JK- 66 Board
CD- 48 Platine
CD- 48 Board
SW- 161 Platine
SW- 161 Board
EL- 11 Platine
EL- 11 Board


SW-161 BOARD
CB-54
CN756 2P
CM1 2
UN(CM0 3)
CN755 2P
CN754
CF GND
S754 EDITSEARCH (+)
S755 EDITSEARCH (−)
S760 MEMORY
S751 DATE (+)
S762 EDIT
S762 BACK LIGHT
S758 SHUTTER SPEED
S757 FOCUS
S761 COLOR/MODE
S752 TIME(NEXT)
S753 COUNTER RESET
S759 SUPERIMPOSE ON/OFF
CN752 3P
S/S GND
SERIAL CONT
DC OUT
CN753 2P
LI 3V
S/S GND
CF-O SWITCH BLOCK
LITIUM BATTERY
VF-40 BOARD
INT TALLY
EXT TALLY
W951 5P
G1
H
H
N.C.
G2
CN952 2P
DV1
DV2
CN953 2P
DH1
DH2
CN951 4P
EVF 5V
EVF GND
EVF VIDEO
UN(TALLY)
CD-48 BOARD
W901 16P
SEALED GND
PG
N.C.
H 1
H 2
CAM GND
V SUB
-9V
V 2
V 1
V 3
V 4
CAM GND
15V
CCD OUT
SEALED GND
FP-333
(CN901) 14P I D M SMT AMP
CN302 14P
PG
N.C.(LH1)
H 1
H 2
CAM GND
V SUB
-9V
V 2
V 1
V 3
V 4
CAM GND
15V
CCD OUT
DT-77K BOARD (HIC)
VC-84 BOARD
(CN751) 16P I D O SMT AMP
CN804 16P
UN(CM0 3)
UN(COM 2)
UN(COM 1)
UN(COM 0)
CM1 3
CM1 2
CM1 1
CM1 0
N.C.(FADER SW)
S/S-GND
N.C.(AUTO LOCK)
UN(EDIT SW)
SERIAL CONT
DC OUT
LI 3V
S/S GND
LD-36 BOARD
CN704 4P
GND
UN(F SENS 1)
UN(F SENS 2)
(LED)
CN705 3P
TP
WP
ZP
CN706 2P
FOCUS FD
FOCUS ND
CN703 2P
ZOOM W D
ZOOM T D
CN702 8P
DRIVE (+)
DRIVE (−)
CONT (+)
CONT (−)
HALL (−)
BIAS (−)
HALL (+)
BIAS (+)
CN701 20P
AF GND
LED CONT
ZP
REF 1V
REF 2V
F SENS 1
F SENS 2
UN(ZOOM W)
UN(ZOOM T)
IRIS CONT
HALL OS
IRIS ADJ
CAM 5V
HALL OUT
FOCUS REF
ZOOM SPEED
UN(FOCUS FG)
FOCUS N
FOCUS F
AF UNREG
FP-187
EV-50
CN805 20P
(CN701) 20P
W303 7P
CAM GND
REC CAM C RF
REC CAM Y RF
CAM GND
CAM C
CAM Y
RF SWP
FP-362 (MOUNT)
CN304 4P
UN(J STB)
MOSI
UN(SCK)
GND
CN802 16P
S/S 5V
EVER 5V
N.C.(FADER CONT)
UN(DDS TEST)
UN(COSMO CS)
UN(DDS SCK)
DDS SO
DDS SI
UN(SYSTEM RESET)
UN(CAM ADJ)
SERIAL CONT
CN604 16P I D O SM
FP-184
ELECTRET CONDENSER MICROPHONE
MIC A
MIC B
CN404 4P
MIC A GND
INT MIC A
INT MIC B
MIC B GND
MA-73 BOARD
J904
MIC PLUG IN POWER
CN405 3P
MIC 5V
MIC IN
MIC GND
TO AU-95
W402 MC-16
AU-95 BOARD
CN402 3P
MIC 5V
MIC IN
MIC GND
J901
Australian MODEL
DEO IN/OUT
EP,UK MODEL VIDEO OUT
V
RFU DC OUT
A
Australian MODEL
UDIO IN/OUT
EP,UK MODEL AUDIO OUT
PIN JACK ASSY
JK-66 BOARD
S921
INPUT
OUTPUT
CN401 14P
AUDIO OUT
AUDIO OUT GND
AUDIO IN
AUDIO IN GND
SP/UN(LP)
PB RF
AUDIO GND
REC AFM RF
AUDIO MUTE
CAM/UN(LINE)
AUDIO 5V
N.C.(FADER CONT)
VA PB MODE
RF SWP
CN203 14P
CN205 4P
EFV 5V
EVF GND
EVF VIDEO
UN(TALLY)
CN204 12P
PB RF CH1
PB RF CH2
PB RF GND
RF SWP
UN(1/2 RF SWP)
UN(REC C CHECK)
UN(PATH)
UN(TEST)
UN(CAM ADJ)
UN(SP)/LP
DRUM I COM
CAP FG
CN201 10P
VIDEO OUT GND
VIDEO OUT
VIDEO IN
VIDEO IN GND
AUDIO OUT GND
AUDIO OUT
AUDIO IN
AUDIO IN GND
DC OUT
DC OUT GND
CN303
7P I S D SMT AMP
CN202 7P
REC CAM C RF
REC CAM Y RF
CAM GND
CAM C
CAM GND
CAM Y
RF SWP
W604 16P
S/S 5V
EVER 5V
N.C.(FADER CONT)
N.C.
UN(COSMO CS)
UN(DDS SCK)
DDS SO
DDS SI
UN(SYSTEM RESET)
UN(CAM ADJ)
SERIAL CONT
VS-72 BOARD
CN206 4P/P
CNR C
PB 5V
JOG C
VIDEO GND
CN101 15P
FE(X)
FE(Y)
FE(G)
2CH B(Y)
2CH B(X)
2CH B(G)
2CH A(X)
2CH A(Y)
2CH A(G)
1CH B(Y)
1CH B(X)
1CH B(G)
1CH A(X)
1CH A(Y)
1CH A(G)
CN607 2P
L.M.LOAD
L.M.UNLOAD
CN601 6P
DEW (−)
DEW (+)
MODE SW C
MODE SW B
MODE SW A
MODE SW COM
CN501 9P
DRUM V
DRUM U
DRUM W
DRUM COM
SENS GND
D FG
FG/PG COM
D PG
SENS GND
CN602 14P
TAPE TOP (C)
DL-17 (W903)
FP-114 (W901)
DL-18 (W904)
DL-18 (W905)
PD-18 BOARD
W206 4P
CNR C
PB 5V
JOG C
VIDEO GND
VP-22
09
S991 CASSETTE LOCK
LM UNLOAD
LM LOAD
M903 LOADING MOTOR
MODE SW
M901 DRUM MOTOR
Q991 END SENSOR

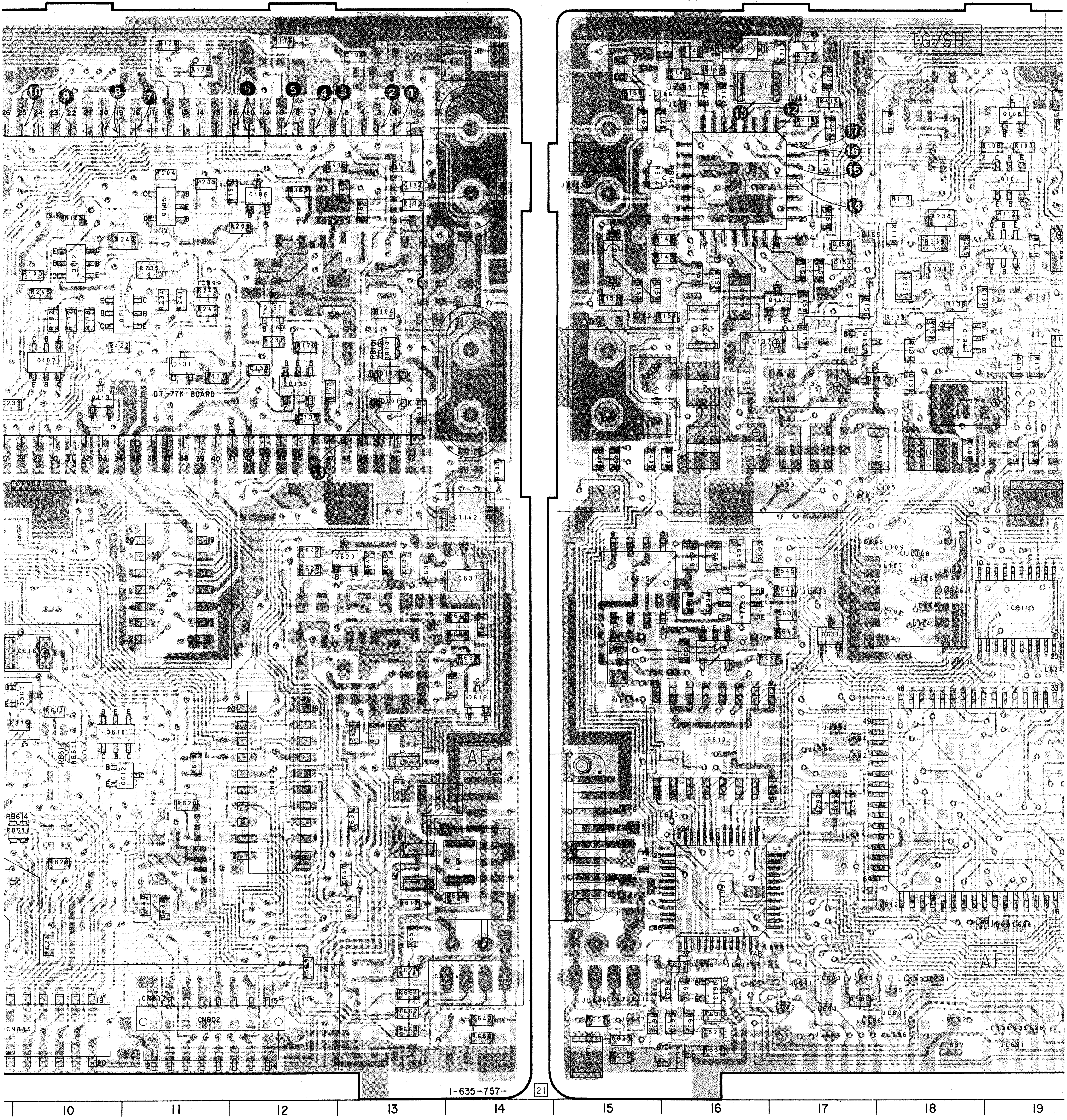

SW
M901 DRUM MOTOR
S991 CASSETTE LOCK
Q991 END SENSOR
FP-115 BOARD
REEL SENSOR
Q992 TOP SENSOR
ME/MP
S992 REC PROOF
M902 CAPSTAN MOTOR
FP-114 (W901)
DL-18 (W904)
FP-115 (W902)
CN502 CARD EDGE 15P
FP-182 (MOUNT)
CN501 9P
CN602 14P
W502 18P
VS-72 BOARD
CN202 7P
CN603 7P I S O SMT AMP
W604 16P
TO VC-84
CN603 18P
(CN603) 18P I D O SMT AMP
W605 17P
FP-184
CN604 16P I D O SMT AMP
CN304 4P
CN802 16P
W801
FP-331 (MOUNT)
VC-84 BOARD
(CN751) 16P I D O SMT AMP
CPA001
SIDE A
SIDE B
CN603 20P
CN801 20P
TI-31 BOARD
FP-330 (MOUNT)
CN605 17P I S O SMT AMP
CN601 8P I S O SMT AMP
CN2 17P
CN3 8P
CN1 5P
DC/DC CONV. DD-30
W909 CD-104
BATTERY TERMINAL
CN901 5P
BATTERY
S755 EDITSEARCH (-)
S760 MEMORY
S761 COLOR/MODE
S759 SUPERIMPOSE ON/OFF
S751 DATE(+)
S752 TIME(NEXT)
S762 EDIT
S753 COUNTER RESET
CN752 3P
W942 CE-51
EL-11 BOARD
EL EARTH PLATE
CN942 3P
J902 REMOTE
FK-O SWITCH BLOCK
S901 CAMERA OFF VTR
S913, S911 T
S914, S912 W
AEP UK MODEL PLAYER E.Australian MODEL VTR
S905
S902 REW
S903
S904 FF
S906
D904 YEL
D903 REC RED
S907 REC
E.Australian MODEL ONLY
D902 CAUTION RED
D901 DEW YEL
S908 EJECT
S909 LOCK/STANDBY
S910 START/STOP

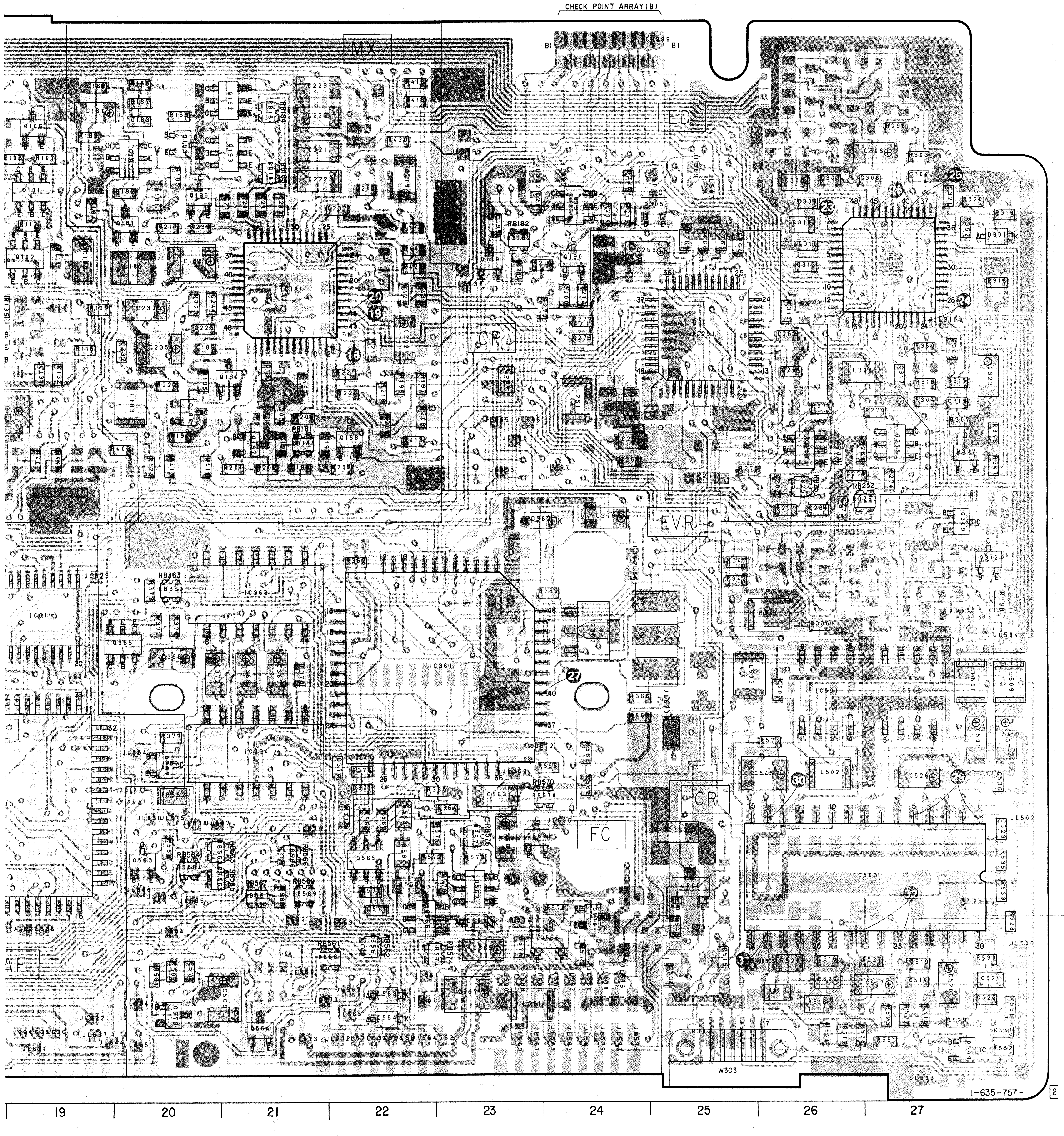
VC-84 BOARD

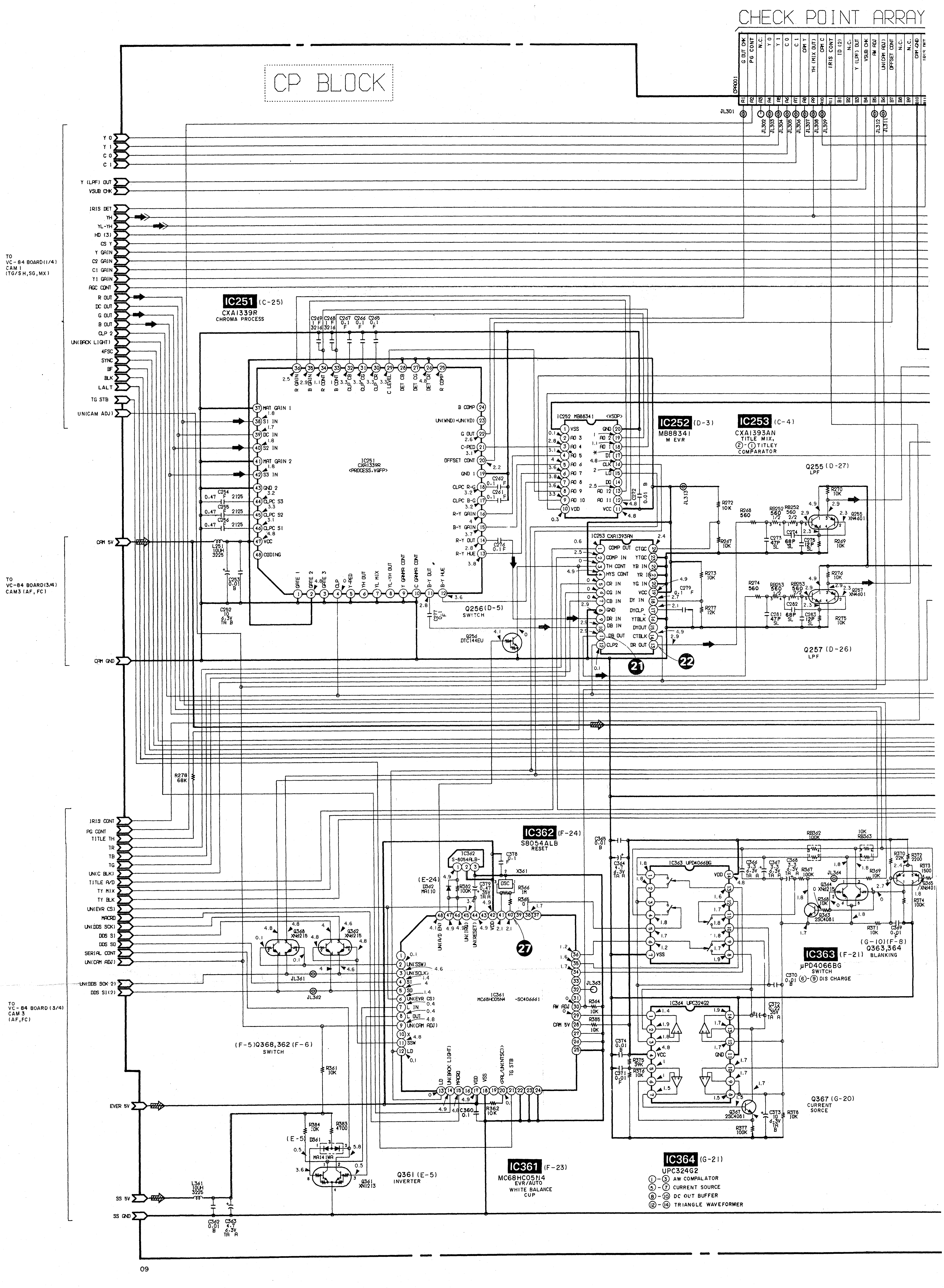
Bestückungsseite
Component side

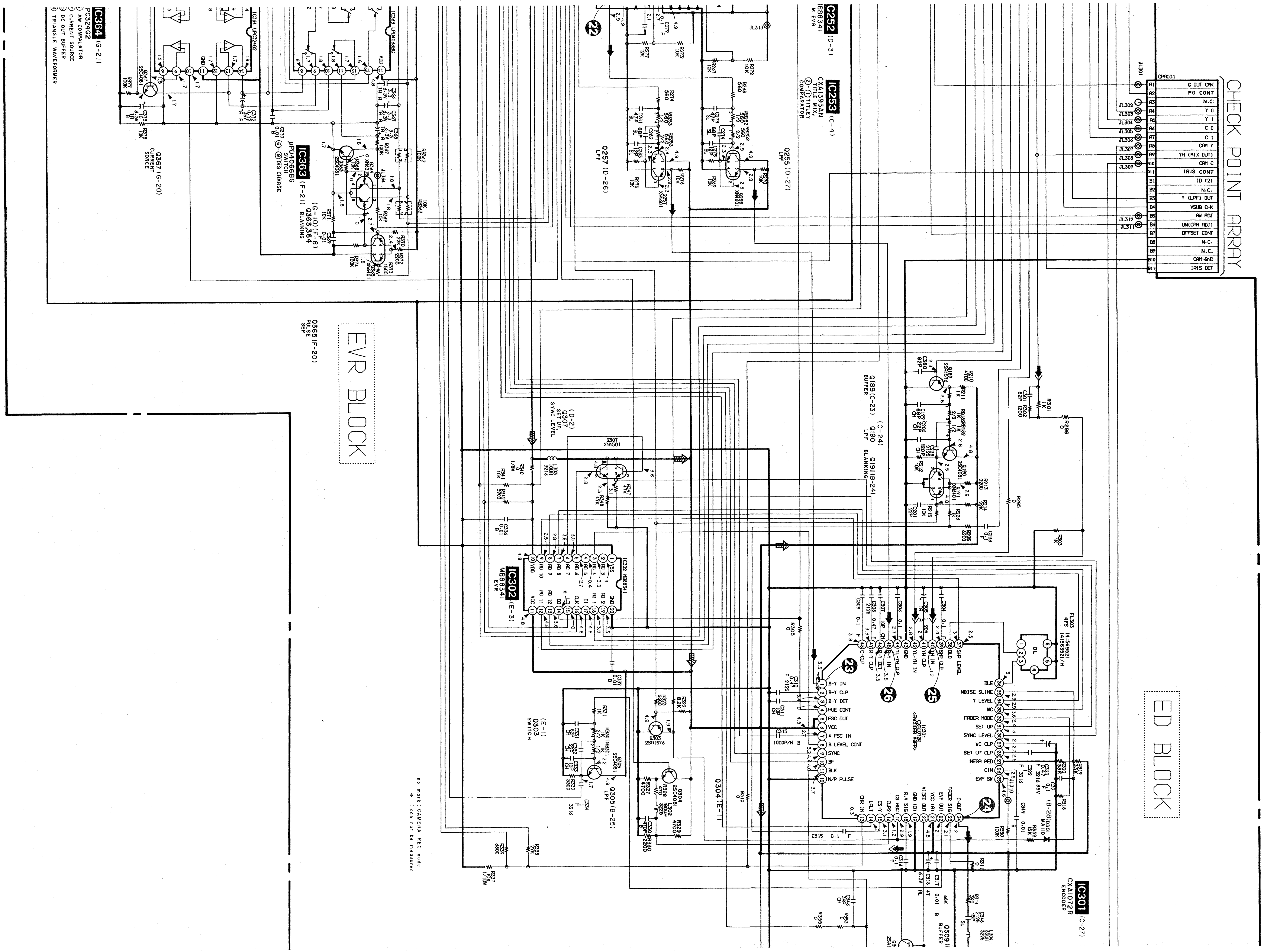

CHECK POINT ARRY(A)
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6
7
8
9
MX
FD
CP
EVR
CR
FC
IC253
IC252
IC251
IC182
IC183
IC551
FL303
FL501
FL502
FL503
FL504
FL181
FL182
CN804
CN805
RV501
RV502
RV503
RV504
RV505
RV561
21
22
28
8
10

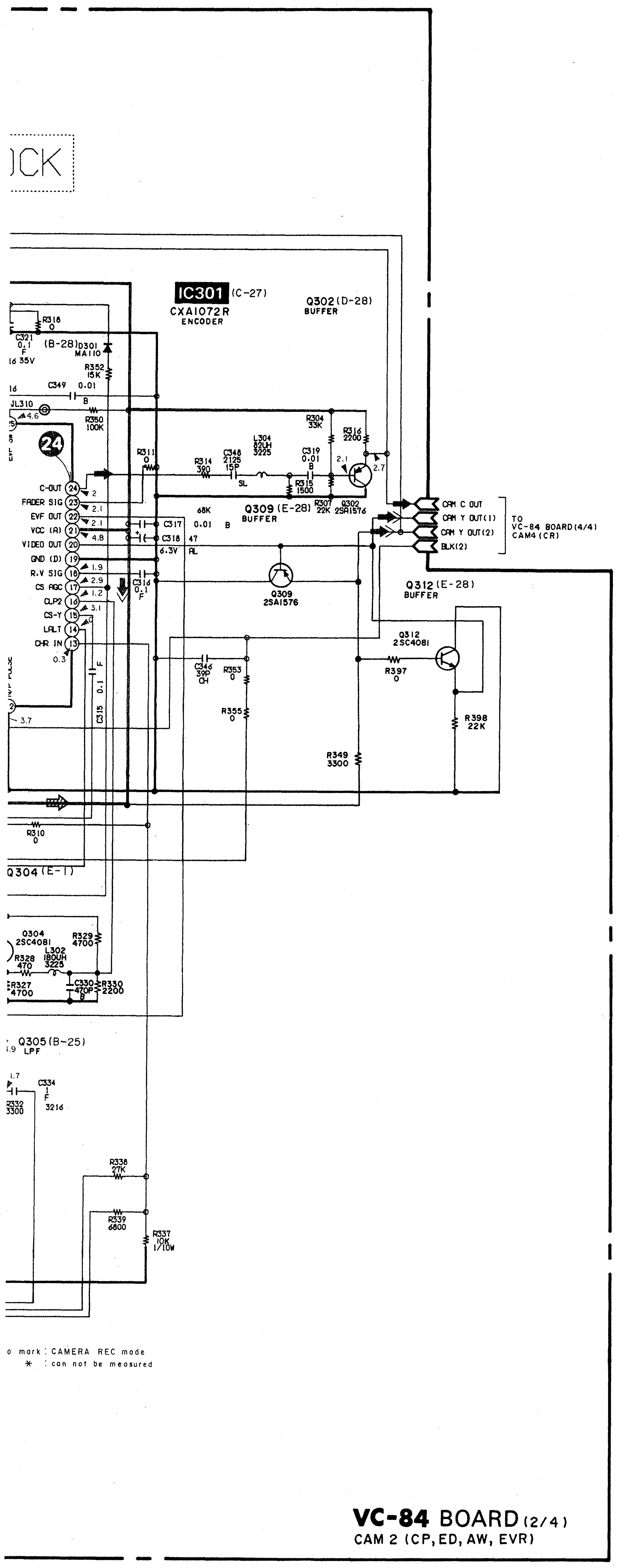
VC-84 BOARD Lötseite Conductor side


DT-77K BOARD
CN302
CN802
CN803
CN805
CT141
CT142
IC610
IC611
IC612
IC613
IC615
IC141
TG/SH
SG
AF
AF
1-635-757-
21
10
11
12
13
14
15
16
17
18
19


CHECK POINT ARRAY(B)
B1
CR999
B1
MX
ED
CP
EVR
CR
FC
AF
IC181
IC251
IC301
IC361
IC362
IC363
IC364
IC501
IC502
IC503
IC611
X361
W303
18
19
20
23
24
25
26
27
29
30
31
32
1-635-757-
2
19
20
21
22
23
24
25
26
27


CHECK POINT ARRAY
CPA001
G OUT CHK
PG CONT
N.C.
Y 0
Y 1
C 0
C 1
CAM Y
YH (MIX OUT)
CAM C
IRIS CONT
ID (2)
N.C.
Y (LPF) OUT
VSUB CHK
AW ADJ
UN(CAM ADJ)
OFFSET CONT
N.C.
N.C.
CAM GND
IRIS DET
JL301
JL302
JL304
JL305
JL306
JL307
JL308
JL309
JL312
JL311
CP BLOCK
TO VC-84 BOARD(1/4) CAM 1 (TG/SH,SG,MX)
Y 0
Y 1
C 0
C 1
Y (LPF) OUT
VSUB CHK
IRIS DET
YH
YL-YH
HD (3)
CS Y
Y GAIN
C2 GAIN
C1 GAIN
Y1 GAIN
AGC CONT
R OUT
DC OUT
G OUT
B OUT
CLP 2
UN(BACK LIGHT)
4FSC
SYNC
BF
BLK
LALT
TG STB
UN(CAM ADJ)
TO VC-84 BOARD(3/4) CAM3 (AF, FC)
CAM 5V
CAM GND
IC251 (C-25)
CXA1339R
CHROMA PROCESS
IC251 CXA1339R <PROCESS.VGFP>
MAT GAIN 1
S1 IN
DC IN
S2 IN
MAT GAIN 2
S3 IN
GND 2
CLPC S3
CLPC S2
CLPC S1
VCC
CODING
GATE 1
GATE 2
GATE 3
CLP
Y-PED
YH OUT
YL MIX
YL-YH OUT
Y GAMMA CONT
C GAMMA CONT
B-Y OUT
B-Y HUE
R-Y HUE
R-Y OUT
B-Y GAIN
R-Y GAIN
CLPC B-G
CLPC R-G
GND 1
OFFSET CONT
C-PED
G OUT
UN(WND)+UN(VD)
B COMP
R COMP
DET CR
DET CG
DET CB
C LEVEL
CLP CR
CLP CG
CLP CB
B CONT
R CONT
B GAIN
R GAIN
C269 1F 3216
C268 1F 3216
C267 0.1 F
C266 0.1 F
C265 0.1 F
C254 0.47 F 2125
C255 0.47 F 2125
C256 0.47 F 2125
L251 10UH 3225
C253 0.01 B
C252 10 6.3V TA B
C262 0.1 F
C261 0.1 F
C276 0.1 F
C277 1 F
Q256 (D-5) SWITCH
Q256 DTC144EU
IC252 (D-3)
MB88341
M EVR
IC252 MB88341 <VSDP>
VSS
AO 3
AO 4
AO 5
AO 6
AO 7
AO 8
AO 9
AO 10
VDD
GND
AO 2
AO 1
DI
CLK
LD
DO
AO 12
AO 11
VCC
C272 0.01 B
IC253 (C-4)
CXA1393AN
TITLE MIX, ②-① TITLEY COMPARATOR
IC253 CXA1393AN
COMP OUT
COMP IN
TH CONT
HYS CONT
CR IN
CG IN
CB IN
GND
DR IN
DB IN
DB OUT
CLP2
CTGC
YTGC
YB IN
YR IN
YG IN
VCC
DY IN
DYCLP
YTBLK
DYOUT
CTBLK
DR OUT
C279 0.1 F
JL313
R272 10K
R267 10K
R273 10K
R277 12K
R268 560
RB252 560 1/2 560 2/2
C273 47P SL
C274 68P SL
C275 12P SL
R270 10K
R269 10K
Q255 XN4601
Q255 (D-27) LPF
R274 560
RB253 560 1/2 560 2/2
C281 47P SL
C282 68P SL
C283 12P SL
R276 10K
R275 10K
Q257 XN4601
Q257 (D-26) LPF
㉑
㉒
R278 68K
TO VC-84 BOARD(3/4) CAM 3 (AF,FC)
IRIS CONT
PG CONT
TITLE TH
TR
TB
TG
UN(C BLK)
TITLE A/D
TY MIX
TY BLK
UN(EVR CS)
MACRO
UN(DDS SCK)
DDS SI
DDS SO
SERIAL CONT
UN(CAM ADJ)
UN(DDS SCK 2)
DDS SI(2)
EVER 5V
SS 5V
SS GND
IC362 (F-24)
S8054ALB
RESET
IC362 S-8054ALB-
C378 0.1
X361
OSC
R366 1M
R365 0
(E-24) D362 MA110
R382 100K
C379 0.47 35V TA A
IC361 MC68HC05N4 -SC406661
UN(A/D ENT)
UN(IRQ)
UN(RESET)
VDD
UN(SSW)
UN(SCLK)
SI
SO
UN(EVR CS)
L IN
L OUT
UN(CAM ADJ)
X
SSW
LD
UN(BACK LIGHT)
MACRO
VSS
<PAL/UN(NTSC)>
TG STB
AW ADJ
CAM 5V
R364 10K
R385 10K
JL363
C360 0.1
R362 10K
㉗
IC361 (F-23)
MC68HC05N4
EVR/AUTO WHITE BALANCE CUP
Q368 XN6215
Q362 XN6215
JL361
JL362
(F-5)Q368,362(F-6) SWITCH
R361 10K
R384 10K
R383 4700
(E-5) D361 MA141WA
Q361 XN1213
Q361 (E-5) INVERTER
L361 10UH 3225
C362 0.01 B
C363 4.7 6.3V TA A
C365 0.01 B
C364 4.7 6.3V TA A
IC363 UPD4066BG
C366 3.3 6.3V TA A
C367 3.3 6.3V TA A
C368 3.3 6.3V TA A
R367 100K
RB362 100K
RB363 10K
R370 22K
R372 2200
R373 1500
R369 10K
JL364
Q364 XN6215
Q365 XN6401
R368 10K
Q363 2SC4081
R371 10K
C369 0.01
R374 100K
(G-10)(F-8) Q363,364 BLANKING
IC363 (F-21)
μPD4066BG
SWITCH
C370 0.01 B ⑥-⑨ DIS CHARGE
IC364 UPC324G2
C372 0.22 35V TA A
C374 0.01 B
R375 39K
R376 10K
C371 0.01 F
Q367 2SC4081
C373 10 6.3V TA B
R378 10K
R377 100K
Q367 (G-20) CURRENT SORCE
IC364 (G-21)
UPC324G2
①-③ AW COMPALATOR
⑤-⑦ CURRENT SOURCE
⑧-⑩ DC OUT BUFFER
⑫-⑭ TRIANGLE WAVEFORMER


CHECK POINT ARRAY
CPA001
A1 G OUT CHK
A2 PG CONT
A3 N.C.
A4 Y 0
A5 Y 1
A6 C 0
A7 C 1
A8 CAM Y
A9 YH (MIX OUT)
A10 CAM C
A11 IRIS CONT
B1 ID (2)
B2 N.C.
B3 Y (LPF) OUT
B4 VSUB CHK
B5 AW ADJ
B6 UN(CAM ADJ)
B7 OFFSET CONT
B8 N.C.
B9 N.C.
B10 CAM GND
B11 IRIS DET
EVR BLOCK
ED BLOCK
IC364 (G-21) μPC324G2
① AW COMPALATOR
② CURRENT SOURCE
③ DC OUT BUFFER
④ TRIANGLE WAVEFORMER
IC363 (F-21) μPD4066BG SWITCH
① ⑥ ⑨ DIS CHARGE
Q367 (G-20) CURRENT SORCE
Q363,364 (G-10)(F-8) BLANKING
Q365 (F-20) PULSE SEP
IC252 (D-3) MB88341 M EVR
IC253 (C-4) CXA1393AN TITLE MIX, ② TITLE Y, COMPARATOR
Q257 (D-26) LPF
Q255 (D-27) LPF
Q189 (C-23) BUFFER
Q190 (C-24) LPF
Q191 (B-24) BLANKING
Q307 (D-2) SET UP, SYNC LEVEL
IC302 (E-3) MB88341 EVR
Q303 (E-1) SWITCH
Q305 (B-25) LPF
Q304 (E-1)
IC301 (C-27) CXA1072R ENCODER
Q309 BUFFER
FL303 4FS 1415691)415652)/H
DL
B-Y IN
B-Y CLP
B-Y DET
HUE CONT
FSC OUT
VCC
4 FSC IN
B LEVEL CONT
SYNC
BF
BLK
N/P PULSE
DLE
NOISE SLINE
Y LEVEL
WC
FADER MODE
SET UP
SYNC LEVEL
WC CLP
SET UP CLP
NEGA PED
CIN
EVF SW
C-OUT
FADER SIG
EVF OUT
VCC (A)
GND (D)
VIDEO OUT
R/Y SIG
CS AGC
CLP2
CS-Y
LALT
CHR IN
C-CLP
R-Y IN
R-Y CLP
R-Y DET
TL-YH CLP
TL-YH IN
YH IN
SHP CLP
DLD
SHP LEVEL
IC301 CXA1072R <ENCODER WAP>
VSS
AO 1 – AO 12
DI
CLK
LD
VDD
GND
no mark : CAMERA REC mode
* : can not be measured
22
23
24
25
26
JL301
JL302
JL303
JL304
JL305
JL306
JL307
JL308
JL309
JL311
JL312
JL313

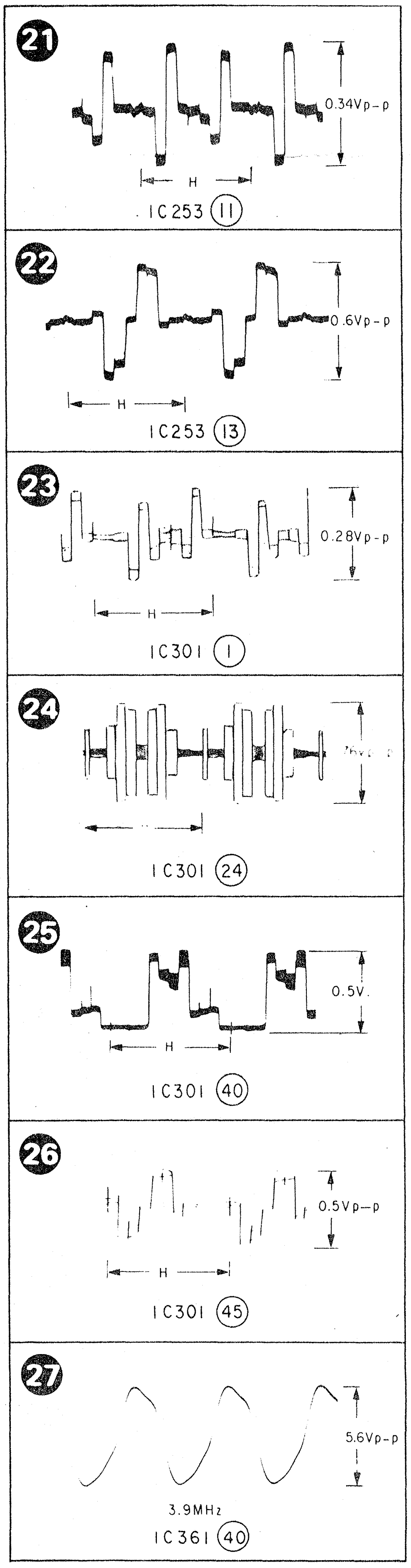


IC301 (C-27)
CXA1072R
ENCODER
Q302 (D-28)
BUFFER
Q309 (E-28)
BUFFER
Q309
2SA1576
Q312 (E-28)
BUFFER
Q312
2SC4081
Q304 (E-1)
Q304
2SC4081
Q305 (B-25)
LPF
D301
MA110
C-OUT
FADER SIG
EVF OUT
VCC (A)
VIDEO OUT
GND (D)
R.V SIG
CS AGC
CLP2
CS-Y
LALT
CHR IN
CAM C OUT
CAM Y OUT(1)
CAM Y OUT(2)
BLK(2)
TO
VC-84 BOARD (4/4)
CAM4 (CR)
R304 33K
R316 2200
R314 390
C348 2125 15P
L304 82UH 3225
C319 0.01 B
R315 1500
R307 22K
Q302 2SA1576
R311 0
R350 100K
R352 15K
C349 0.01 B
C321 0.1 F 16 35V
R318 0
C317 0.01 B
C318 47 6.3V AL
C316 0.1 F
C346 39P CH
R353 0
R355 0
R349 3300
R397 0
R398 22K
R310 0
C315 0.1 F
R329 4700
R328 470
L302 180UH 3225
R327 4700
C330 470P B
R330 2200
C334 1 F 3216
R332 3300
R336 27K
R339 6800
R337 10K 1/10W
o mark : CAMERA REC mode
* : can not be measured

VC-84 BOARD (2/4)
CAM 2 (CP, ED, AW, EVR)

Oszillogramme der VC- 84 Platine
VC- 84 Board Waveforms

VC-84 BOARD

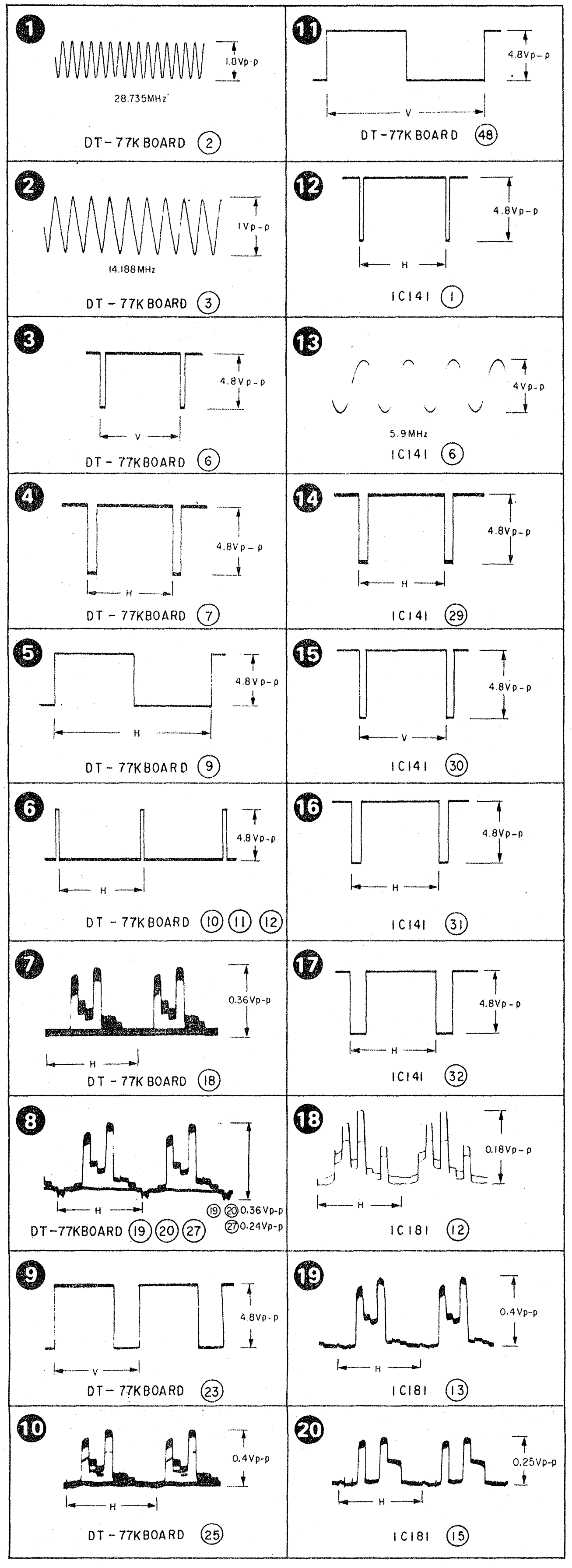


Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	⇨		
PB				

Oszillogramme der VC- 84 Platine
VC- 84 Board Waveforms

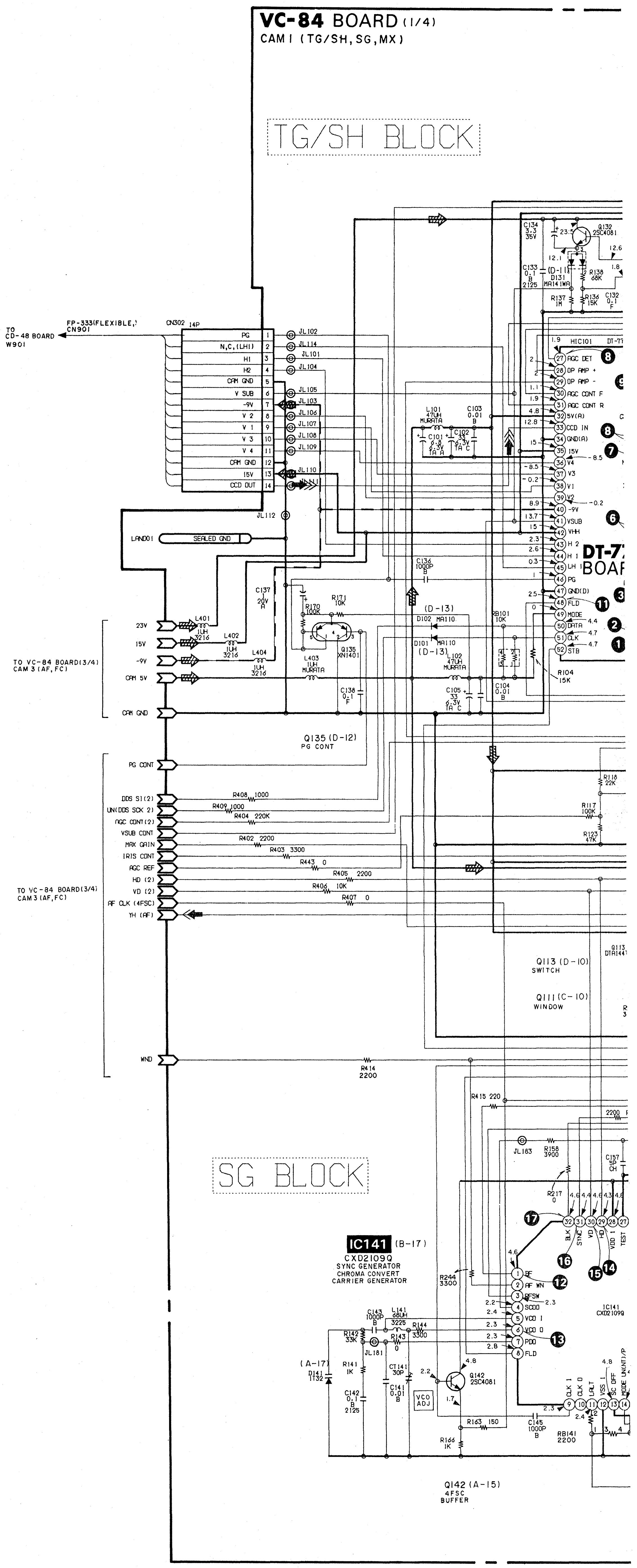
VC-84 BOARD (TG/SH, SG, MX)



Signalweg
Signal Path

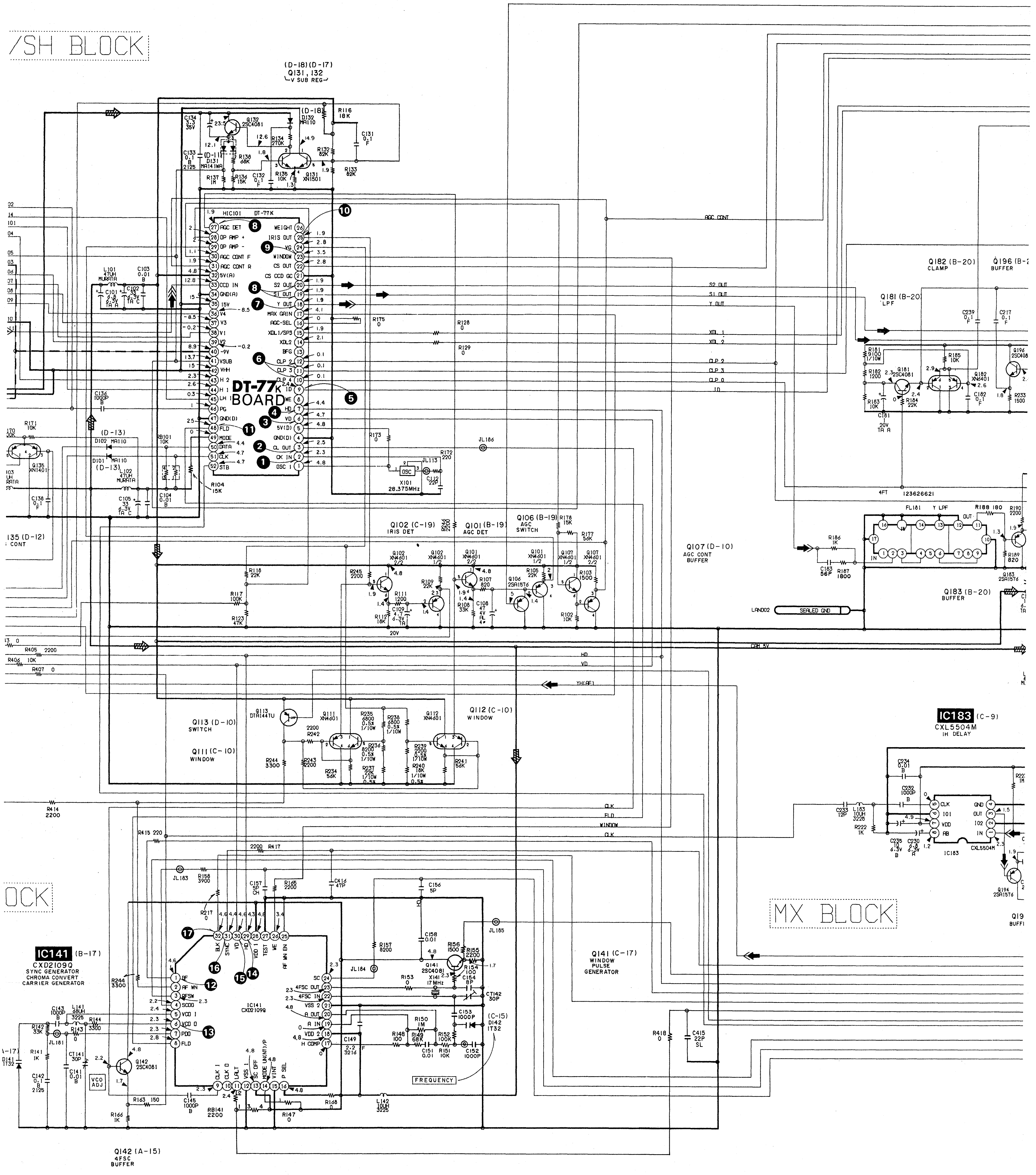
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	⇒	⋙	
PB				

VC-84 BOARD (1/4)
CAM I (TG/SH, SG, MX)

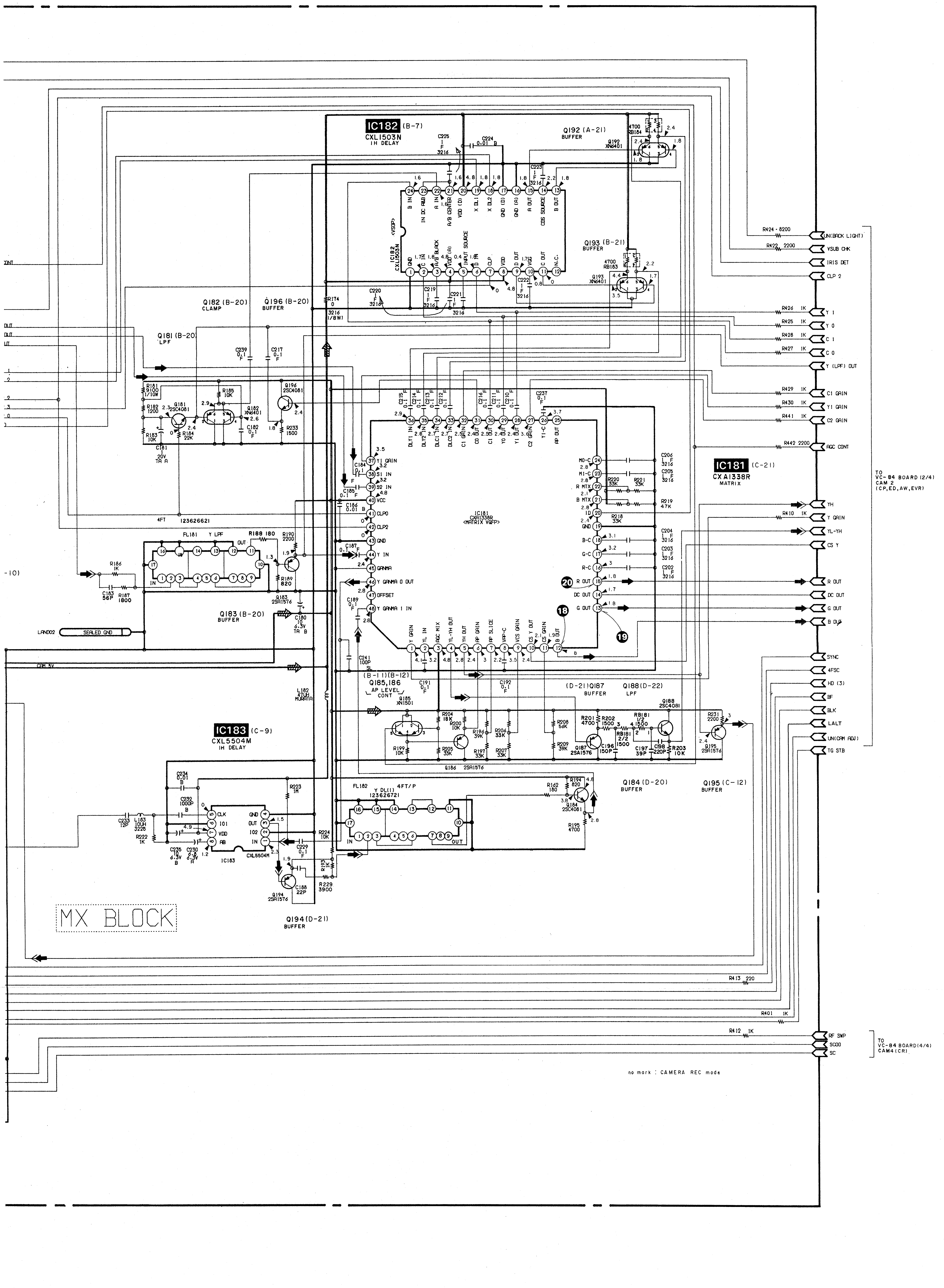


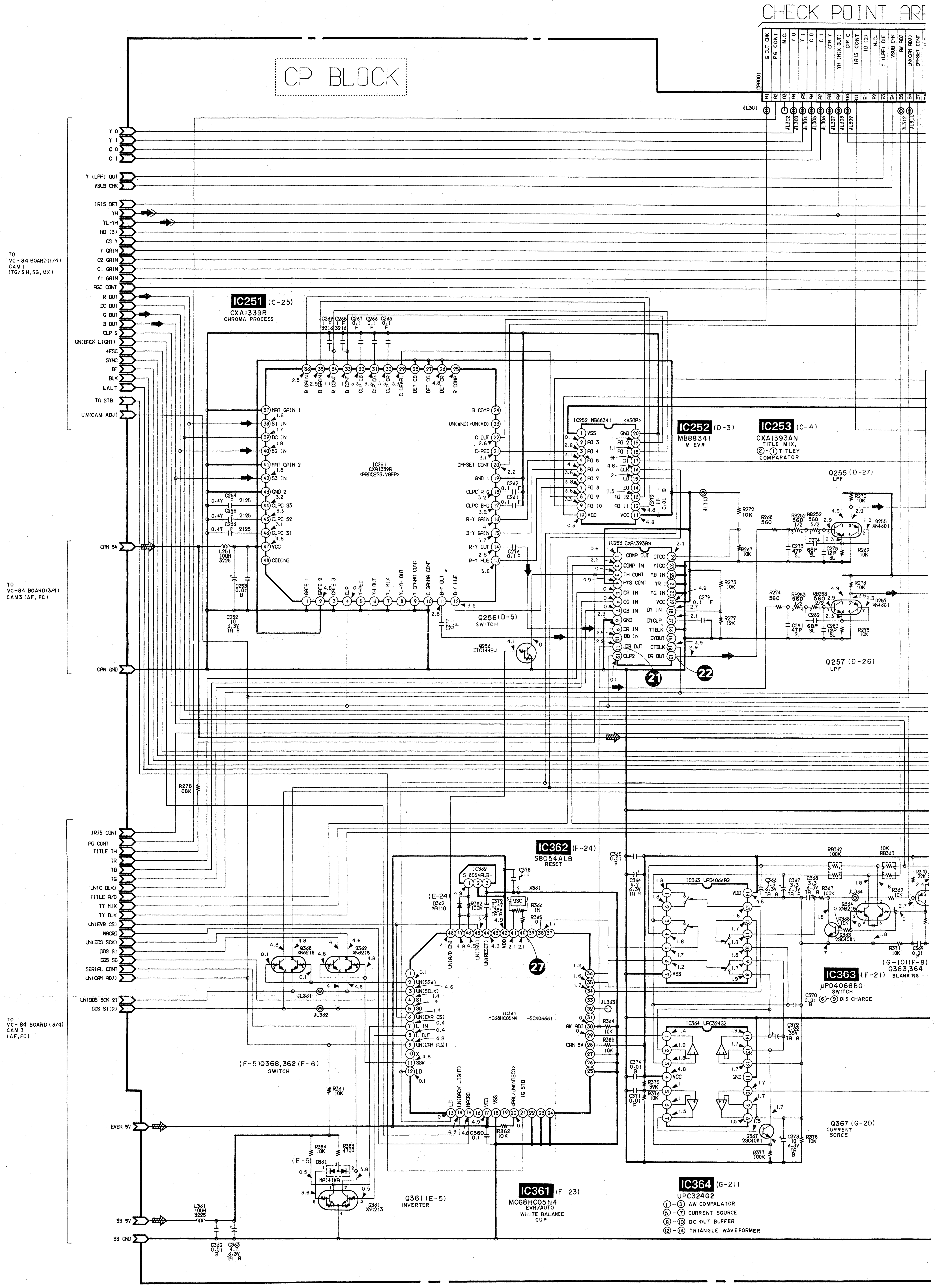
TG/SH BLOCK
SG BLOCK
TO CD-48 BOARD W901
FP-333(FLEXIBLE) CN901
CN302 14P
PG
N.C.(LH1)
H1
H2
CAM GND
V SUB
-9V
V2
V1
V3
V4
CAM GND
15V
CCD OUT
JL102
JL114
JL101
JL104
JL105
JL103
JL106
JL107
JL108
JL109
JL110
JL112
LAND01
SEALED GND
23V
15V
-9V
CAM 5V
CAM GND
TO VC-84 BOARD(3/4) CAM 3 (AF,FC)
PG CONT
DDS S1(2)
UN(DDS SCK 2)
AGC CONT(2)
VSUB CONT
MAX GAIN
IRIS CONT
AGC REF
HD (2)
VD (2)
AF CLK (4FSC)
YH (AF)
TO VC-84 BOARD(3/4) CAM 3 (AF,FC)
WND
Q135 (D-12) PG CONT
Q113 (D-10) SWITCH
Q111 (C-10) WINDOW
IC141 (B-17) CXD2109Q SYNC GENERATOR CHROMA CONVERT CARRIER GENERATOR
Q142 (A-15) 4FSC BUFFER
Q142 2SC4081
Q132 2SC4081
D131 MA141WA
D101 MA110
D102 MA110
VCO ADJ
DT-77 BOARD
AGC DET
OP AMP +
OP AMP -
AGC CONT F
AGC CONT R
5V(A)
CCD IN
GND(A)
VH
VSUB
H2
H1
LH
GND(D)
FLD
MODE
DATA
CLK
STB
BF
AF WN
SCOO
VCO I
VCO O
PDO
CLK I
CLK O
LALT
VSS 1
SC OFF
MODE UN(NT)/P
BLK
SYNC
VD
HD
VDD 1
TEST

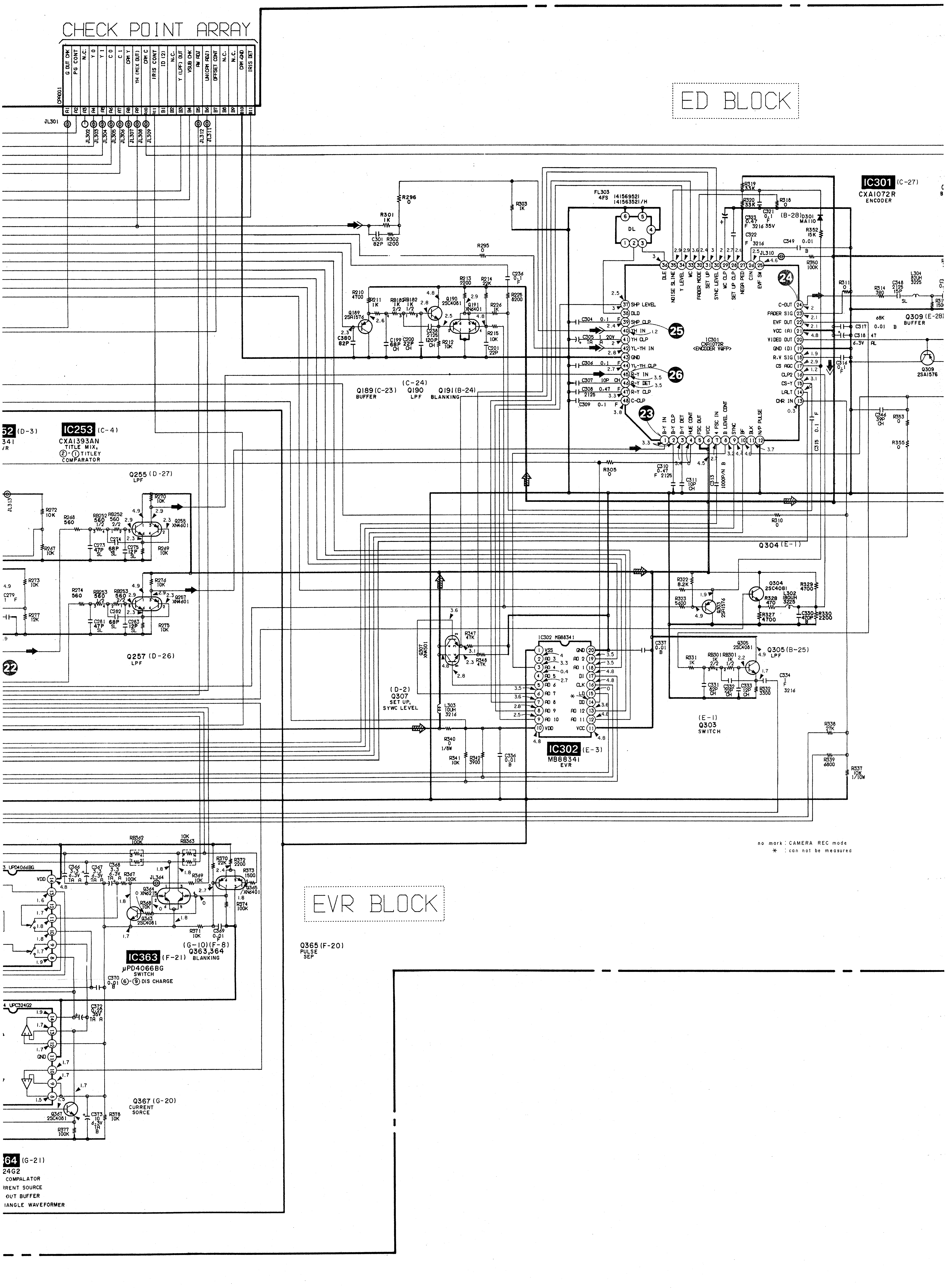
4 BOARD (1/4)
'G/SH, SG, MX)



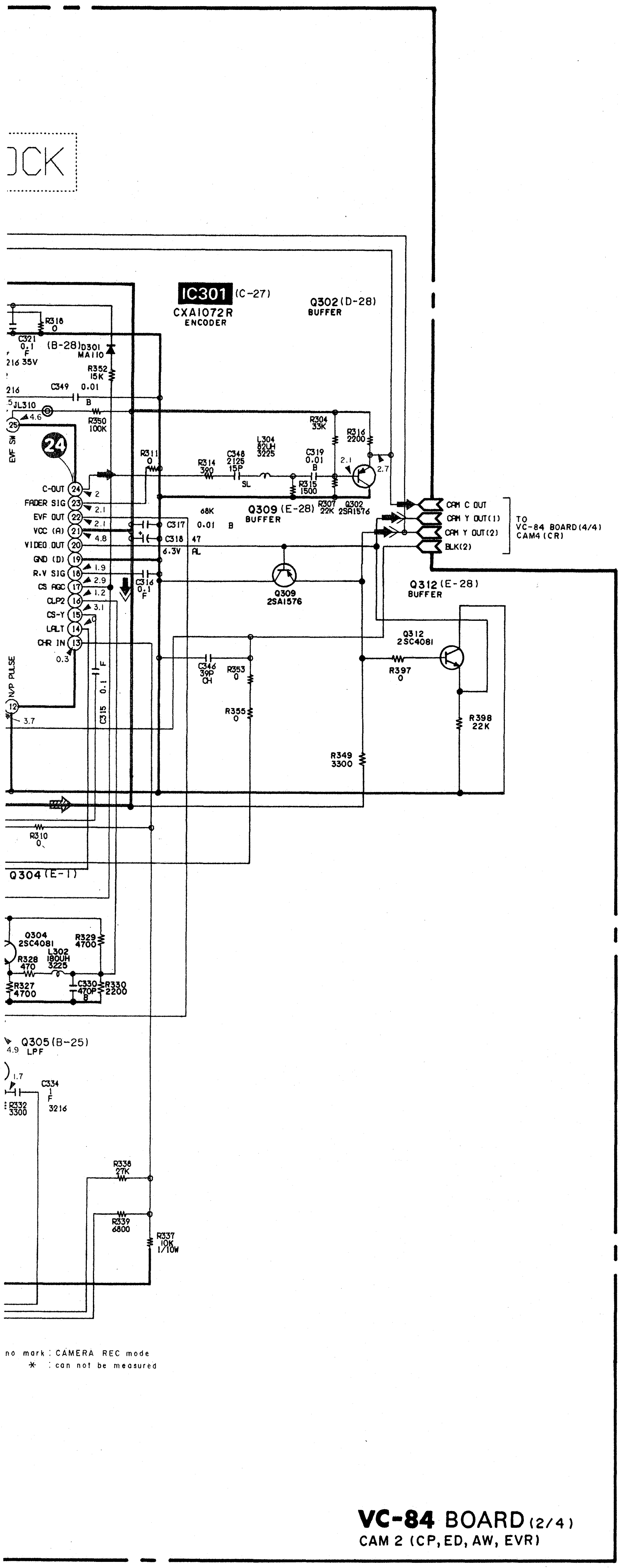
/SH BLOCK
(D-18)(D-17)
Q131, 132
V SUB REG
HIC101 DT-77K
DT-77K BOARD
AGC DET
OP AMP +
OP AMP -
AGC CONT F
AGC CONT R
5V(A)
CCD IN
GND(A)
15V
V4
V3
V1
V2
-9V
VSUB
VHH
H 2
H 1
LH 1
PG
GND(D)
FLD
MODE
DATA
CLK
STB
WEIGHT
IRIS OUT
VG
WINDOW
CS OUT
CS CCD GC
S2 OUT
S1 OUT
Y OUT
MAX GAIN
AGC-SEL
XDL1/SP3
XDL2
BFG
CLP 2
CLP 3
CLP 4
ID
WE
HD
VD
5V(D)
GND(D)
CL OUT
CK IN
OSC 1
X101 28.375MHz
AGC CONT
S2 OUT
S1 OUT
Y OUT
XDL 1
XDL 2
CLP 2
CLP 3
CLP 0
ID
Q182 (B-20) CLAMP
Q196 (B-2 BUFFER
Q181 (B-20) LPF
FL181 Y LPF
123626621
Q183 (B-20) BUFFER
SEALED GND
LAND02
CAM 5V
HD
VD
YH(AF)
Q102 (C-19) IRIS DET
Q101 (B-19) AGC DET
Q106 (B-19) AGC SWITCH
Q107 (D-10) AGC CONT BUFFER
Q113 (D-10) SWITCH
Q111 (C-10) WINDOW
Q112 (C-10) WINDOW
IC183 (C-9) CXL5504M 1H DELAY
CLK
FLD
WINDOW
CLK
MX BLOCK
OCK
IC141 (B-17) CXD2109Q SYNC GENERATOR CHROMA CONVERT CARRIER GENERATOR
Q141 (C-17) WINDOW PULSE GENERATOR
Q142 (A-15) 4FSC BUFFER
VCO ADJ
FREQUENCY
BLK
SYNC
VD
HD
VDD 1
TEST
WE
AF WN EN
SC
4FSC OUT
4FSC IN
VSS 2
A IN
A OUT
VDD 2
H COMP
CLK I
CLK O
LALT
VSS 1
SC OFF
MODE UN(NT)/P
VINT
P SEL
AF
AF WN
SCDO
VCO I
VCO O
PDO
FLD
X141 17MHz
(D-13)
(D-11)
Q135 XN1401

MX BLOCK
IC182 (B-7)
CXL1503N
1H DELAY
IC181 (C-21)
CXA1338R
MATRIX
IC183 (C-9)
CXL5504M
1H DELAY
Q192 (A-21)
BUFFER
Q193 (B-21)
BUFFER
Q182 (B-20)
CLAMP
Q196 (B-20)
BUFFER
Q181 (B-20)
LPF
Q183 (B-20)
BUFFER
(B-11)(B-12)
Q185,186
AP LEVEL CONT
(D-21) Q187
BUFFER
Q188 (D-22)
LPF
Q184 (D-20)
BUFFER
Q195 (C-12)
BUFFER
Q194 (D-21)
BUFFER
FL181 Y LPF
FL182 Y DL(1) 4FT/P 123626721
4FT 123626621
LAND02 SEALED GND
CAM 5V
UN(BACK LIGHT)
YSUB CHK
IRIS DET
CLP 2
Y 1
Y 0
C 1
C 0
Y (LPF) OUT
C1 GAIN
Y1 GAIN
C2 GAIN
AGC CONT
YH
Y GAIN
YL-YH
CS Y
R OUT
DC OUT
G OUT
B OUT
SYNC
4FSC
HD (3)
BF
BLK
LALT
UN(CAM ADJ)
TG STB
RF SWP
SCDD
SC
TO VC-84 BOARD (2/4) CAM 2 (CP,ED,AW,EVR)
TO VC-84 BOARD(4/4) CAM4(CR)
no mark : CAMERA REC mode


CHECK POINT ARR
CP BLOCK
CPA001
G OUT CHK
PG CONT
N.C.
Y 0
Y 1
C 0
C 1
CAM Y
YH (MIX OUT)
CAM C
IRIS CONT
ID (2)
N.C.
Y (LPF) OUT
VSUB CHK
AW ADJ
UN(CAM ADJ)
OFFSET CONT
JL301
TO VC-84 BOARD(1/4) CAM 1 (TG/SH,SG,MX)
Y 0
Y 1
C 0
C 1
Y (LPF) OUT
VSUB CHK
IRIS DET
YH
YL-YH
HD (3)
CS Y
Y GAIN
C2 GAIN
C1 GAIN
Y1 GAIN
AGC CONT
R OUT
DC OUT
G OUT
B OUT
CLP 2
UN(BACK LIGHT)
4FSC
SYNC
BF
BLK
LALT
TG STB
UN(CAM ADJ)
IC251 (C-25)
CXA1339R
CHROMA PROCESS
IC251 CXA1339R <PROCESS,VQFP>
IC252 (D-3)
MB88341
M EVR
IC253 (C-4)
CXA1393AN
TITLE MIX,
②-① TITLEY COMPARATOR
Q255 (D-27) LPF
Q257 (D-26) LPF
Q256 (D-5) SWITCH
Q256 DTC144EU
TO VC-84 BOARD(3/4) CAM3 (AF,FC)
CAM 5V
CAM GND
R278 68K
IRIS CONT
PG CONT
TITLE TH
TR
TB
TG
UN(C BLK)
TITLE A/D
TY MIX
TY BLK
UN(EVR CS)
MACRO
UN(DDS SCK)
DDS SI
DDS SO
SERIAL CONT
UN(CAM ADJ)
UN(DDS SCK 2)
DDS SI(2)
TO VC-84 BOARD (3/4) CAM 3 (AF,FC)
IC362 (F-24)
S8054ALB
RESET
IC361 MC68HC05N4 -SC406661
(F-5)Q368,362 (F-6) SWITCH
Q368 XN4215
Q362 XN4215
IC363 (F-21)
μPD4066BG
SWITCH
⑥-⑨ DIS CHARGE
(G-10)(F-8) Q363,364 BLANKING
IC363 UPD4066BG
IC364 UPC324G2
Q367 (G-20) CURRENT SORCE
Q367 2SC4081
EVER 5V
SS 5V
SS GND
Q361 (E-5) INVERTER
Q361 XN1213
IC361 (F-23)
MC68HC05N4
EVR/AUTO WHITE BALANCE CUP
IC364 (G-21)
UPC324G2
①-③ AW COMPALATOR
⑤-⑦ CURRENT SOURCE
⑧-⑩ DC OUT BUFFER
⑫-⑭ TRIANGLE WAVEFORMER
㉑
㉒
㉗
09


CHECK POINT ARRAY
CPA001
A1 G OUT CHK
A2 PG CONT
A3 N.C.
A4 Y 0
A5 Y 1
A6 C 0
A7 C 1
A8 CAM Y
A9 YH (MIX OUT)
A10 CAM C
A11 IRIS CONT
B1 ID (2)
B2 N.C.
B3 Y (LPF) OUT
B4 VSUB CHK
B5 AW ADJ
B6 UN(CAM ADJ)
B7 OFFSET CONT
B8 N.C.
B9 N.C.
B10 CAM-GND
B11 IRIS DET
JL301
JL302
JL303
JL304
JL305
JL306
JL307
JL308
JL309
JL312
JL311
ED BLOCK
EVR BLOCK
IC301 (C-27)
CXA1072R
ENCODER
IC301 CXA1072R <ENCODER YQFP>
FL303 4FS 141569521 141563521/H
DL
IC302 (E-3)
MB88341
EVR
IC302 MB88341
IC253 (C-4)
CXA1393AN
TITLE MIX,
②-① TITLEY
COMPARATOR
Q255 (D-27) LPF
Q257 (D-26) LPF
Q189 (C-23) BUFFER
(C-24) Q190 LPF
Q191 (B-24) BLANKING
(D-2) Q307 SET UP, SYWC LEVEL
Q304 (E-1)
Q305 (B-25) LPF
(E-1) Q303 SWITCH
Q309 (E-28) BUFFER
IC363 (F-21)
μPD4066BG
SWITCH
⑥-⑨ DIS CHARGE
(G-10)(F-8) Q363,364 BLANKING
Q365 (F-20) PULSE SEP
Q367 (G-20) CURRENT SORCE
64 (G-21)
24G2
COMPALATOR
RENT SOURCE
OUT BUFFER
IANGLE WAVEFORMER
52 (D-3)
341
/R
㉒
㉓
㉔
㉕
㉖
B-Y IN
B-Y CLP
B-Y DET
HUE CONT
FSC OUT
VCC
4 FSC IN
B LEVEL CONT
SYNC
BF
BLK
N/P PULSE
CHR IN
LALT
CS-Y
CLP2
CS AGC
R.V SIG
GND (D)
VIDEO OUT
VCC (A)
EVF OUT
FADER SIG
C-OUT
EVF SW
CIN
NEGA PED
SET UP CLP
WC CLP
SYNC LEVEL
SET UP
FADER MODE
WC
Y LEVEL
NOISE SLINE
DLE
DLD
SHP LEVEL
SHP CLP
YH IN
YH CLP
YL-YH IN
GND
YL-YH CLP
R-Y IN
R-Y DET
R-Y CLP
C-CLP
VSS
AO 1
AO 2
AO 3
AO 4
AO 5
AO 6
AO 7
AO 8
AO 9
AO 10
AO 11
AO 12
DI
CLK
LD
DO
VDD
UPC324G2
UPD4066BG
2SA1576
2SC4081
XN4601
XN4501
XN0215
MA110

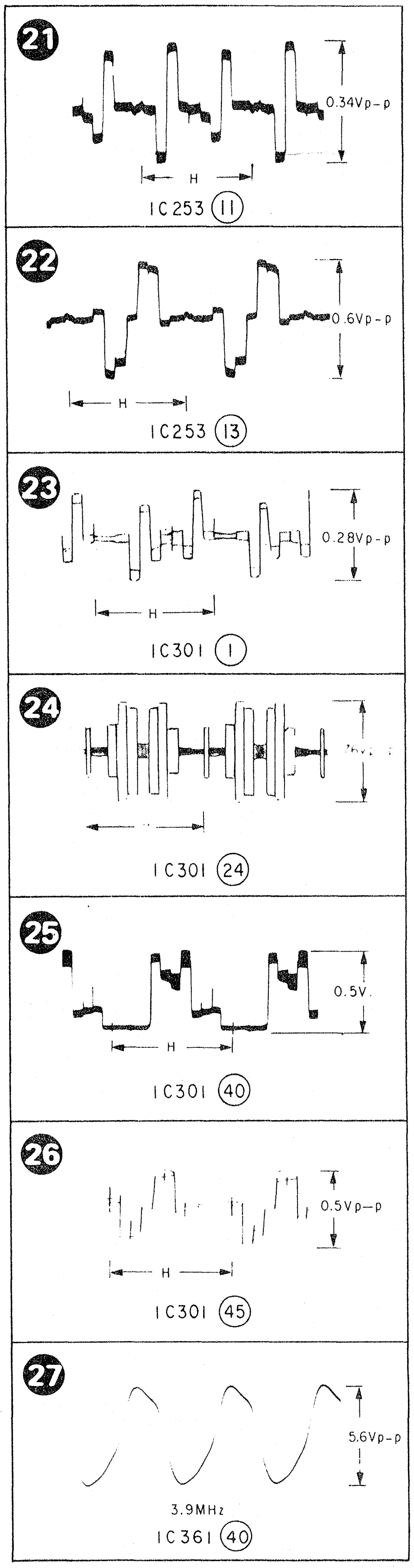
no mark : CAMERA REC mode
＊ : can not be measured


IC301 (C-27)
CXA1072R
ENCODER
Q302 (D-28)
BUFFER
C321 0.1 F
R318 0
(B-28) D301 MA110
216 35V
R352 15K
C349 0.01 B
JL310
4.6
EVF SW
R350 100K
R304 33K
R316 2200
R311 0
R314 390
C348 2125 15P
L304 82UH 3225
C319 0.01 B
R315 1500
SL
2.1
2.7
C-OUT 24
FADER SIG 23
EVF OUT 22
VCC (A) 21
VIDEO OUT 20
GND (D) 19
R.V SIG 18
CS AGC 17
CLP2 16
CS-Y 15
LALT 14
CHR IN 13
N/P PULSE 12
2
2.1
2.1
4.8
1.9
2.9
1.2
3.1
0.3
3.7
68K
C317 0.01 B
C318 47 6.3V AL
C316 0.1 F
Q309 (E-28) BUFFER
R307 22K
Q302 2SA1576
Q309 2SA1576
CAM C OUT
CAM Y OUT(1)
CAM Y OUT(2)
BLK(2)
TO VC-84 BOARD(4/4) CAM4 (CR)
Q312 (E-28) BUFFER
Q312 2SC4081
R397 0
R398 22K
R349 3300
C346 39P CH
R353 0
R355 0
C315 0.1 F
R310 0
Q304 (E-1)
Q304 2SC4081
R329 4700
L302 180UH 3225
R328 470
R327 4700
C330 470P B
R330 2200
Q305 (B-25) LPF
4.9
1.7
C334 1 F 3216
R332 3300
R338 27K
R339 6800
R337 10K 1/10W
no mark : CAMERA REC mode
* : can not be measured

VC-84 BOARD (2/4)
CAM 2 (CP, ED, AW, EVR)

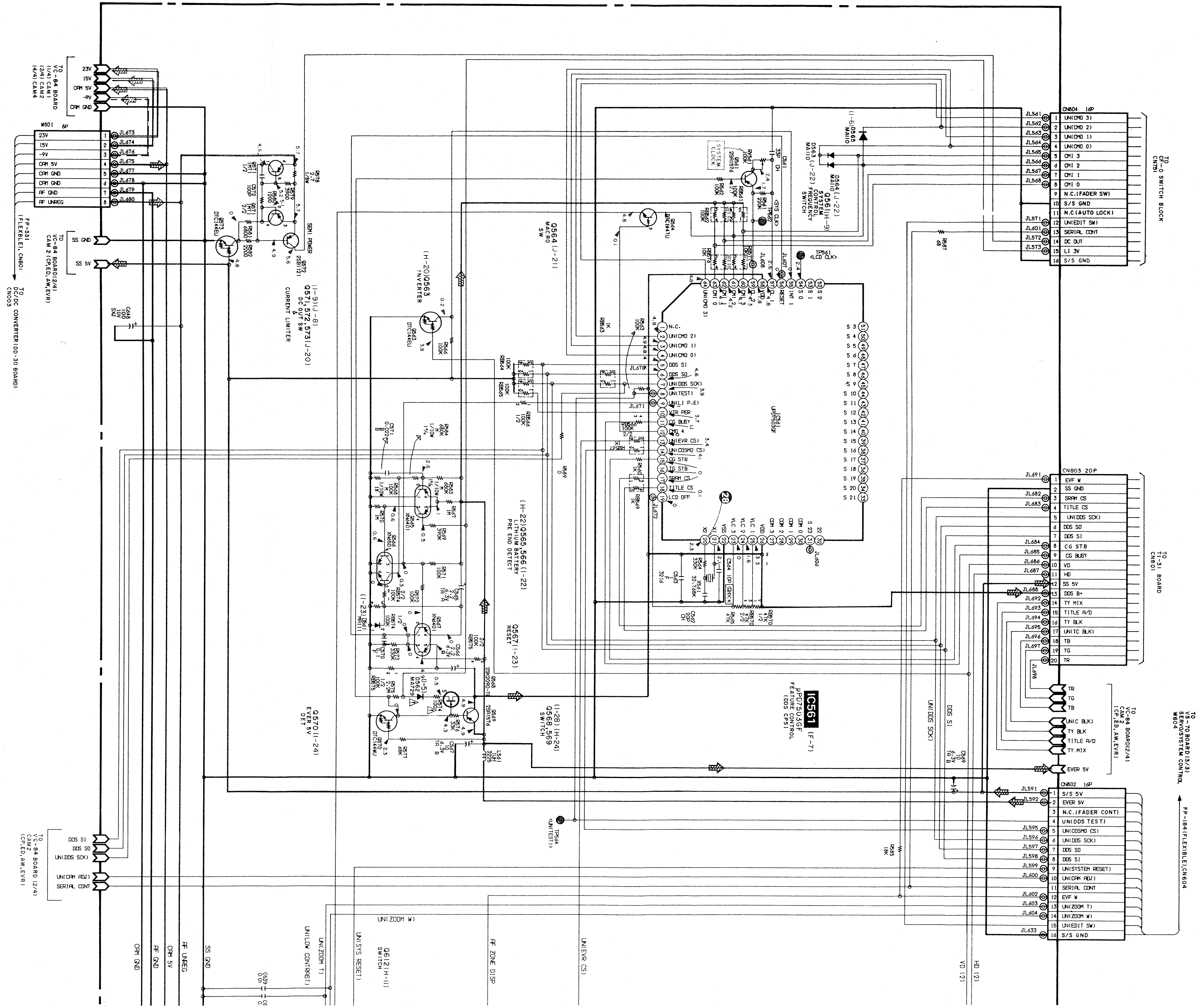
Oszillogramme der VC- 84 Platine
VC- 84 Board Waveforms

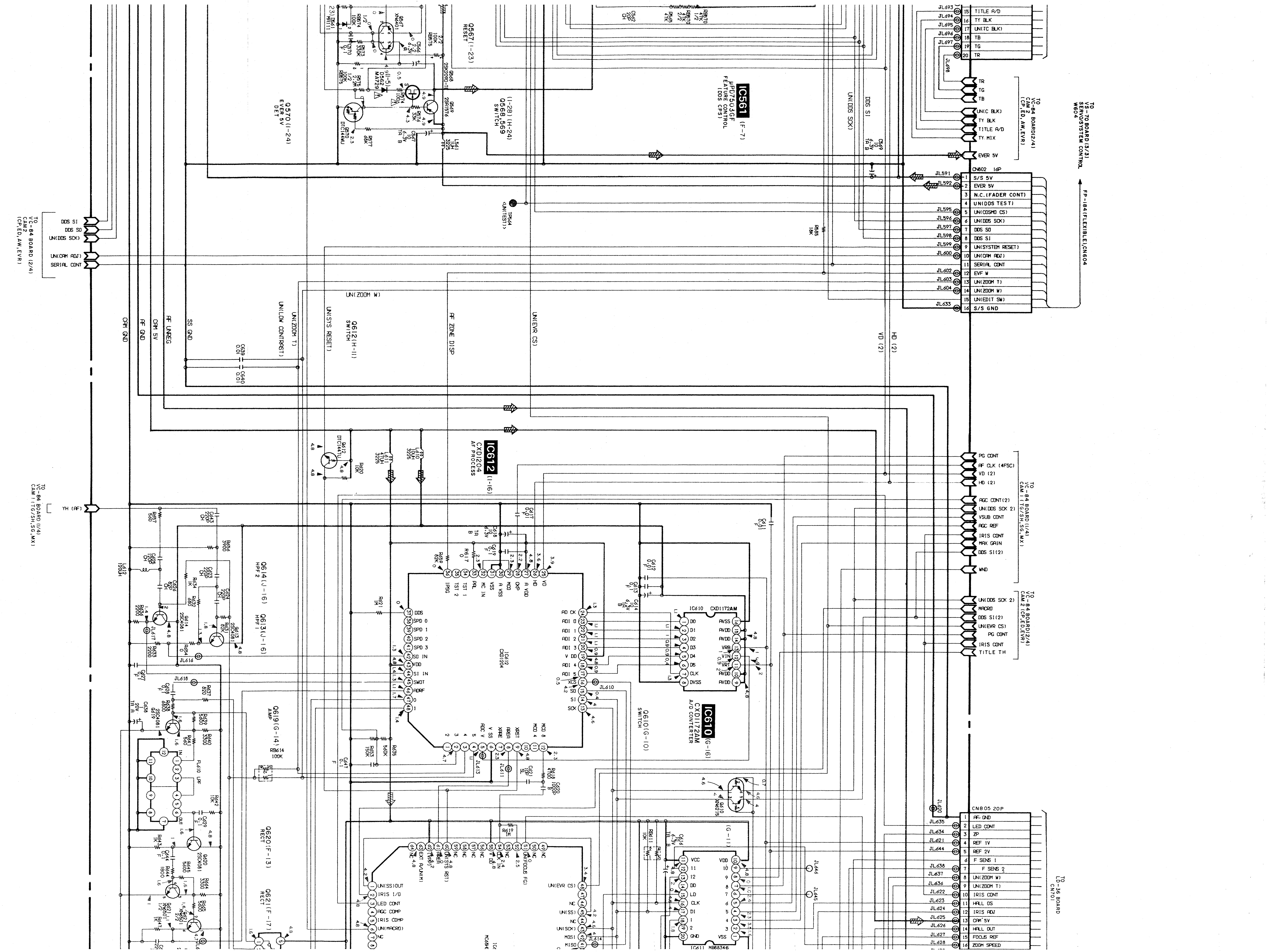
VC-84 BOARD

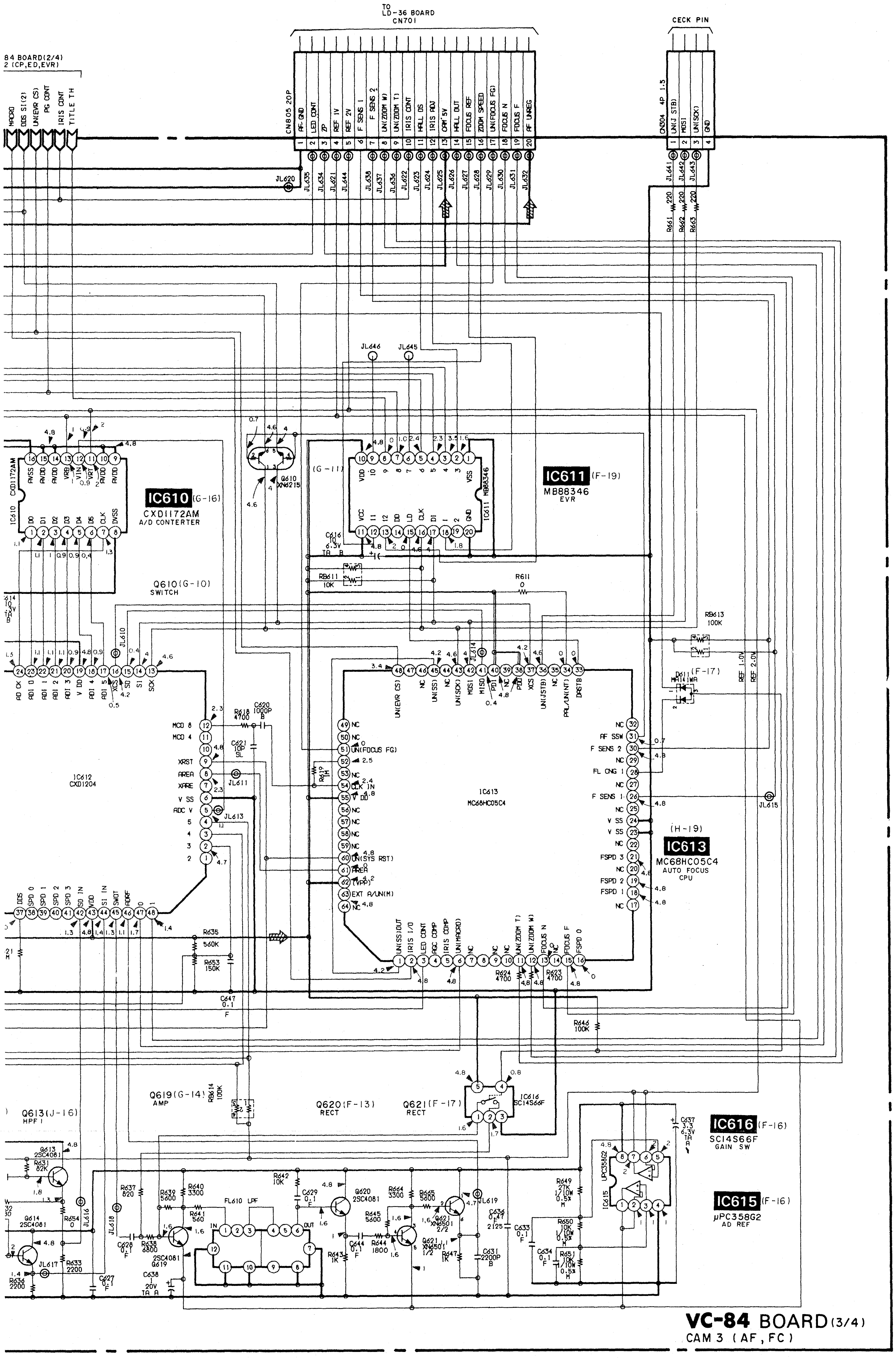


Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	⇨		
PB				


IC561 μPD7503GF FEATURE CONTROL (DDS CPS) (F-7)
CN604 16P
UN(CMD 3)
UN(CMD 2)
UN(CMD 1)
UN(CMD 0)
CMI 3
CMI 2
CMI 1
CMI 0
N.C.(FADER SW)
S/S GND
N.C(AUTO LOCK)
UN(EDIT SW)
SERIAL CONT
DC OUT
LI 3V
S/S GND
TO CF-0 SWITCH BLOCK CN751
CN803 20P
EVF W
SS GND
SRAM CS
TITLE CS
UN(DDS SCK)
DDS SO
DDS SI
CG STB
CG BUSY
VD
HD
SS 5V
DDS B+
TY MIX
TITLE A/D
TY BLK
UN(TC BLK)
TB
TG
TR
TO TI-31 BOARD CN801
TO VC-84 BOARD(2/4) CAM 2 (CP,ED,AW,EVR)
EVER 5V
CN802 16P
S/S 5V
EVER 5V
N.C.(FADER CONT)
UN(DDS TEST)
UN(COSMO CS)
UN(DDS SCK)
DDS SO
DDS SI
UN(SYSTEM RESET)
UN(CAM ADJ)
SERIAL CONT
EVF W
UN(ZOOM T)
UN(ZOOM W)
UN(EDIT SW)
S/S GND
TO VS-70 BOARD(3/3) SERVO/SYSTEM CONTROL W604
FP-184(FLEXIBLE),CN604
W801 8P
23V
15V
-9V
CAM 5V
CAM GND
AF GND
AF UNREG
TO VC-84 BOARD (1/4) CAM1 (2/4) CAM2 (4/4) CAM4
FP-331 (FLEXIBLE),CN801
TO DC/DC CONVERTER(DD-30 BOARD) CN003
SS GND
SS 5V
TO VC-84 BOARD(2/4) CAM 2(CP,ED,AW,EVR)
DDS SI
DDS SO
UN(DDS SCK)
UN(CAM ADJ)
SERIAL CONT
Q571,572,573(J-20) DC OUT SW & CURRENT LIMITER
SEMI POWER
Q563 (H-20) INVERTER
Q564 (J-21) MACRO SW
Q561 (H-9) SYSTEM CONTROL FREQUENCY SWITCH
D563 (J-22) MA110
D564 (J-22) MA110
D565 (I-6) MA110
SYSTEM CLOCK
TP561 <LCD CLK>
<SYS CLK>
Q565,566 (I-22) LITHIUM BATTERY PRE END DETECT
Q567 (I-23) RESET
Q568,569 (I-28)(H-24) SWITCH
Q570 (I-24) EVER 5V DET
TP564 <UN(TEST)>
X561 32.768K
Q612 (H-11) SWITCH
UN(ZOOM W)
UN(ZOOM T)
UN(LOW CONTRAST)
UN(SYS RESET)
AF ZONE DISP
UN(EVR CS)
VD (2)
HD (2)
UN(DDS SCK)
DDS SI
CAM GND
AF GND
CAM 5V
AF UNREG
SS GND

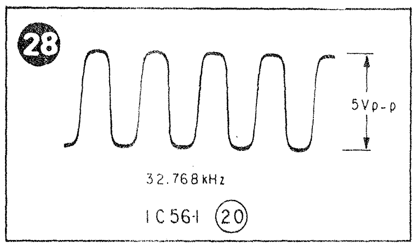

IC561 μPD7503GF (F-7)
FEATURE CONTROL (DDS CPS)
Q567 (I-23) RESET
Q568,569 (I-28)(H-24) SWITCH
Q570 (I-24) EVER 5V DET
Q612 (H-11) SWITCH
IC612 CXD1204 (I-16) AF PROCESS
IC610 CXD1172AM (G-16) A/D CONVERTER
Q610 (G-10) SWITCH
Q614 (J-16) HPF 2
Q613 (J-16) HPF 1
Q619 (G-14) AMP
Q620 (F-13) RECT
Q621 (F-17) RECT
FL610 LPF
IC611 MB86346
CN602 16P
S/S 5V
EVER 5V
N.C.(FADER CONT)
UN(DDS TEST)
UN(COSMO CS)
UN(DDS SCK)
DDS SO
DDS SI
UN(SYSTEM RESET)
UN(CAM ADJ)
SERIAL CONT
EVF W
UN(ZOOM T)
UN(ZOOM W)
UN(EDIT SW)
S/S GND
FP-184 (FLEXIBLE) CN604
TITLE A/D
TY BLK
UN(TC BLK)
TB
TG
TR
EVER 5V
TY MIX
TO VC-84 BOARD (2/4) CAM 2 (CP,ED,AW,EVR)
TO VS-70 BOARD (3/3) SERVO/SYSTEM CONTROL W604
TO VC-84 BOARD (1/4) CAM 1 (TG,SH,SG,MX)
PG CONT
AF CLK (4FSC)
VD (2)
HD (2)
AGC CONT(2)
UN(DDS SCK 2)
VSUB CONT
AGC REF
IRIS CONT
MAX GAIN
DDS SI(2)
WND
MACRO
UN(EVR CS)
TITLE TH
YH (AF)
DDS SI
DDS SO
UN(DDS SCK)
UN(CAM ADJ)
SERIAL CONT
CAM GND
AF GND
CAM 5V
AF UNREG
SS GND
UN(LOW CONTRAST)
UN(ZOOM T)
UN(ZOOM W)
UN(SYS RESET)
AF ZONE DISP
UN(EVR CS)
VD (2)
HD (2)
CN805 20P
AF-GND
LED CONT
ZP
REF 1V
REF 2V
F SENS 1
F SENS 2
UN(ZOOM W)
UN(ZOOM T)
IRIS CONT
HALL OS
IRIS ADJ
CAM 5V
HALL OUT
FOCUS REF
ZOOM SPEED
TO LD-36 BOARD CN701


TO LD-36 BOARD CN701
CECK PIN
84 BOARD(2/4) 2 (CP,ED,EVR)
MACRO
DDS SI(2)
UN(EVR CS)
PG CONT
IRIS CONT
TITLE TH
CN805 20P
AF GND
LED CONT
ZP
REF 1V
REF 2V
F SENS 1
F SENS 2
UN(ZOOM W)
UN(ZOOM T)
IRIS CONT
HALL DS
IRIS ADJ
CAM 5V
HALL OUT
FOCUS REF
ZOOM SPEED
UN(FOCUS FG)
FOCUS N
FOCUS F
AF UNREG
CN304 4P 1.5
UN(J STB)
MOSI
UN(SCK)
GND
IC610 (G-16)
CXD1172AM
A/D CONTERTER
IC611 (F-19)
MB88346
EVR
Q610 (G-10)
SWITCH
IC612
CXD1204
IC613 (H-19)
MC68HC05C4
AUTO FOCUS
CPU
IC616 (F-16)
SC14S66F
GAIN SW
IC615 (F-16)
μPC358G2
AD REF
Q613 (J-16)
HPF 1
Q619 (G-14)
AMP
Q620 (F-13)
RECT
Q621 (F-17)
RECT
FL610 LPF
REF 1.0V
REF 2.0V
D611 (F-17)
MA141WA

VC-84 BOARD(3/4)
CAM 3 (AF, FC)

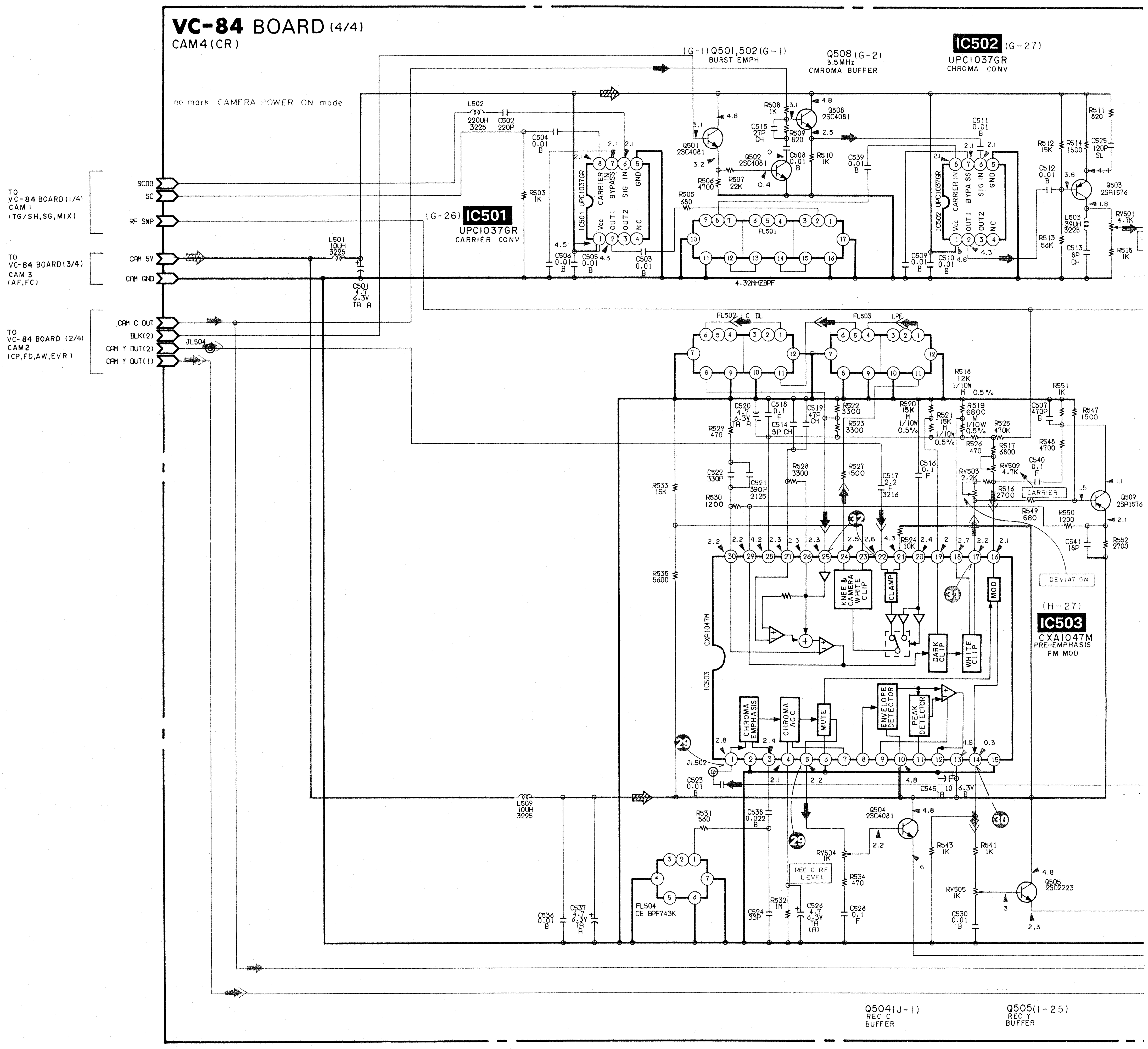
Oszillogramm der VC- 84 Platine
VC- 84 Board Waveform

VC-84 BOARD



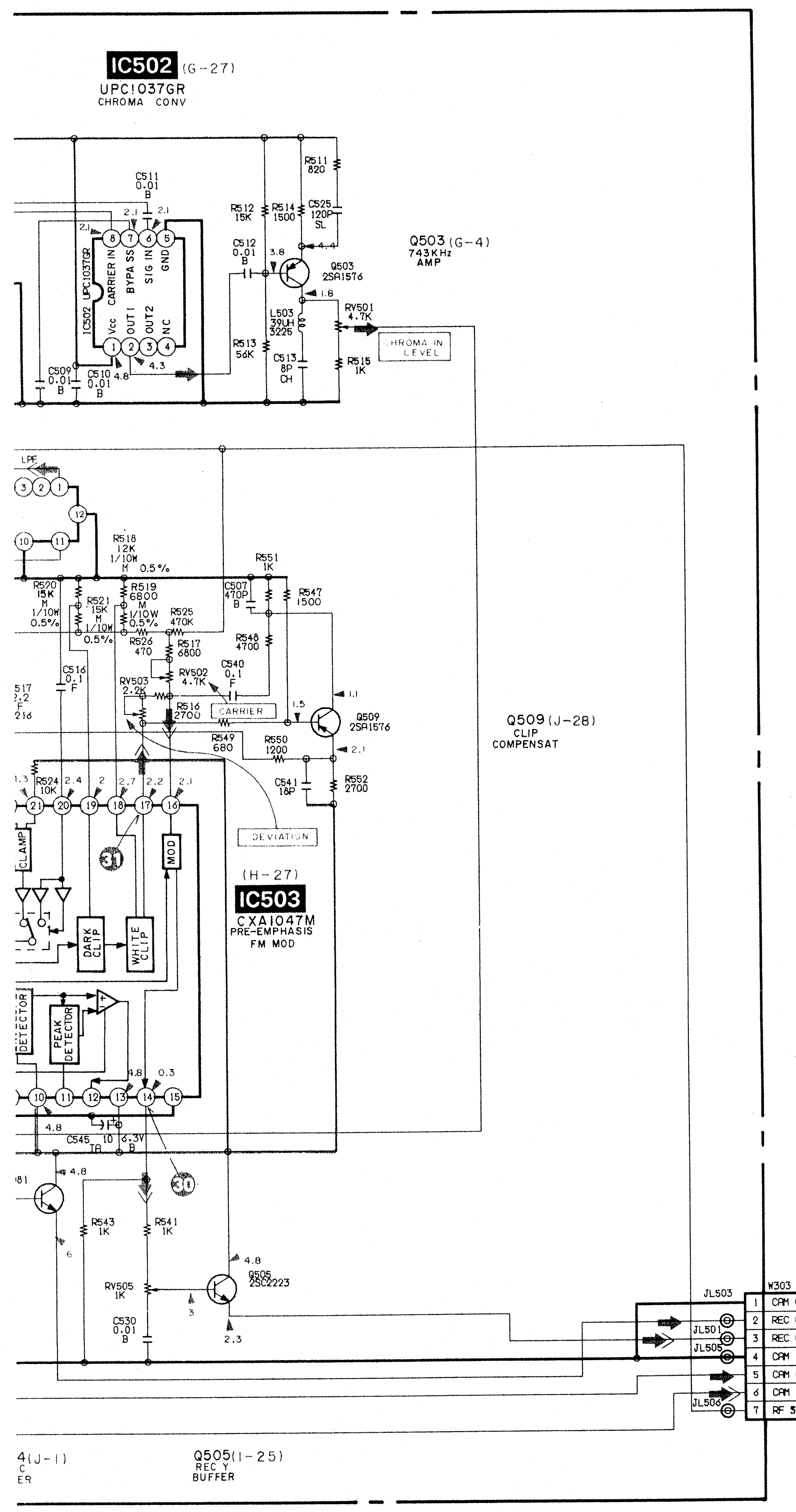
VC-84 BOARD (4/4)

CAM4(CR)


no mark : CAMERA POWER ON mode
TO VC-84 BOARD (1/4) CAM 1 (TG/SH,SG,MIX)
TO VC-84 BOARD (3/4) CAM 3 (AF,FC)
TO VC-84 BOARD (2/4) CAM2 (CP,FD,AW,EVR)
SCOO
SC
RF SWP
CAM 5V
CAM GND
CAM C OUT
BLK(2)
CAM Y OUT(2)
CAM Y OUT(1)
JL504
L501 10UH 3225
C501 4.7 6.3V TA A
L502 220UH 3225
C502 220P
C504 0.01 B
R503 1K
(G-26) IC501 UPC1037GR CARRIER CONV
IC501 UPC1037GR
Vcc OUT1 OUT2 NC
CARRIER IN BYPASS SIG IN GND
C506 0.01 B
C505 0.01 B
C503 0.01 B
(G-1) Q501,502 (G-1) BURST EMPH
Q508 (G-2) 3.5MHz CMROMA BUFFER
Q501 2SC4081
Q502 2SC4081
Q508 2SC4081
R508 1K
C515 27P CH
R509 820
C508 0.01 B
R510 1K
C539 0.01 B
R506 4700
R507 22K
R505 680
FL501
4.32MHZBPF
IC502 (G-27) UPC1037GR CHROMA CONV
IC502 UPC1037GR
Vcc OUT1 OUT2 NC
CARRIER IN BYPA SS SIG IN GND
C509 0.01 B
C510 0.01 B
C511 0.01 B
R511 820
R512 15K
R514 1500
C525 120P SL
C512 0.01 B
Q503 2SA1576
L503 39UH 3225
R513 56K
C513 8P CH
RV501 4.7K
R515 1K
FL502 C DL
FL503 LPF
R518 12K 1/10W M 0.5%
R551 1K
C507 470P B
R547 1500
C520 4.7 6.3V TA A
C518 0.1 F
C519 47P CH
C514 5P CH
R522 3300
R523 3300
R520 15K M 1/10W 0.5%
R521 15K M 1/10W 0.5%
R519 6800 M 1/10W 0.5%
R525 470K
R526 470
R517 6800
R548 4700
R529 470
C522 330P
C521 390P 2125
R528 3300
R527 1500
C517 2.2 F 3216
C516 0.1 F
RV503 2.2K
RV502 4.7K
C540 0.1 F
R516 2700
CARRIER
Q509 2SA1576
R533 15K
R530 1200
R549 680
R550 1200
C541 18P
R552 2700
R524 10K
R535 5600
IC503 CXA1047M
DEVIATION
(H-27) IC503 CXA1047M PRE-EMPHASIS FM MOD
KNEE & CAMERA WHITE CLIP
CLAMP
DARK CLIP
WHITE CLIP
MOD
CHROMA EMPHASIS
CHROMA AGC
MUTE
ENVELOPE DETECTOR
PEAK DETECTOR
JL502
C523 0.01 B
C545 10 6.3V TA B
L509 10UH 3225
R531 560
C538 0.022 B
Q504 2SC4081
RV504 1K
REC C RF LEVEL
R534 470
R543 1K
R541 1K
RV505 1K
Q505 2SC2223
FL504 CE BPF743K
C536 0.01 B
C537 4.7 6.3V TA A
R532 1M
C524 33P
C526 4.7 6.3V TA (A)
C528 0.1 F
C530 0.01 B
Q504 (J-1) REC C BUFFER
Q505 (I-25) REC Y BUFFER

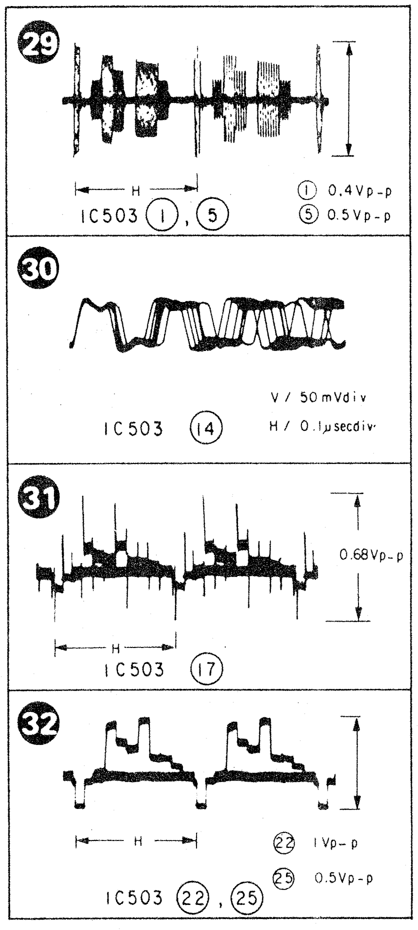
Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	⇨		
PB				

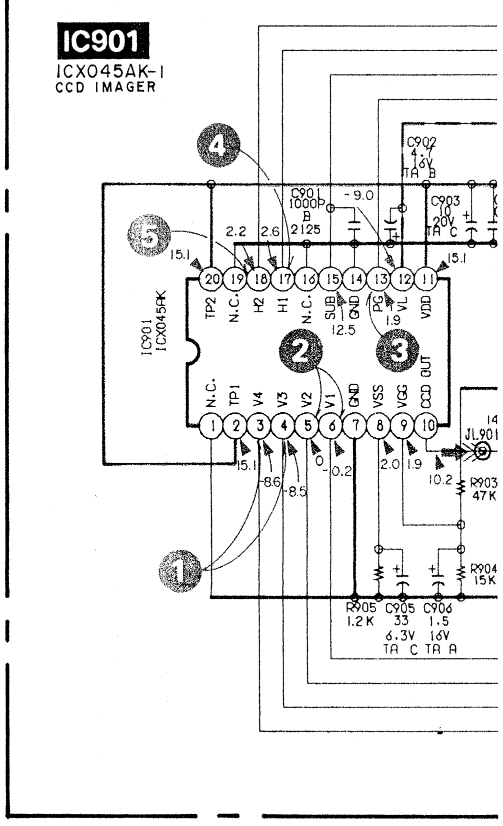

IC502 (G-27)
UPC1037GR
CHROMA CONV
Vcc
OUT1
OUT2
NC
CARRIER IN
BYPA SS
SIG IN
GND
C511 0.01 B
R511 820
R512 15K
R514 1500
C525 120P SL
C512 0.01 B
Q503 (G-4)
743KHz
AMP
Q503 2SA1576
L503 39µH
R513 56K
C513 8P CH
RV501 4.7K
R515 1K
CHROMA IN LEVEL
C509 0.01 B
C510 0.01 B
LPF
R518 12K 1/10W M 0.5%
R551 1K
R520 15K
R521 15K
R519 6800
R525 470K
C507 470P B
R547 1500
R526 470
R517 6800
R548 4700
C516 0.1 F
RV503 2.2K
RV502 4.7K
C540 0.1 F
R516 2700
CARRIER
Q509 2SA1576
Q509 (J-28)
CLIP
COMPENSAT
R549 680
R550 1200
C541 18P
R552 2700
R524 10K
CLAMP
DARK CLIP
WHITE CLIP
MOD
DEVIATION
(H-27)
IC503
CXA1047M
PRE-EMPHASIS
FM MOD
DETECTOR
PEAK DETECTOR
C545 10 6.3V
R543 1K
R541 1K
RV505 1K
C530 0.01 B
Q505 2SC2223
Q505 (I-25)
REC Y
BUFFER
JL503
JL501
JL505
JL506
W303 7P
1 CAM GND
2 REC CAM C RF
3 REC CAM Y RF
4 CAM GND
5 CAM C
6 CAM Y
7 RF SWP
FP-362 (FLEXBLE) CN303
TO VS-72 BOARD (2/3) (VIDEO) CN202

Oszillogramme der VC- 84 Platine
VC- 84 Board Waveforms

VC-84 BOARD



CD-48 BOARD

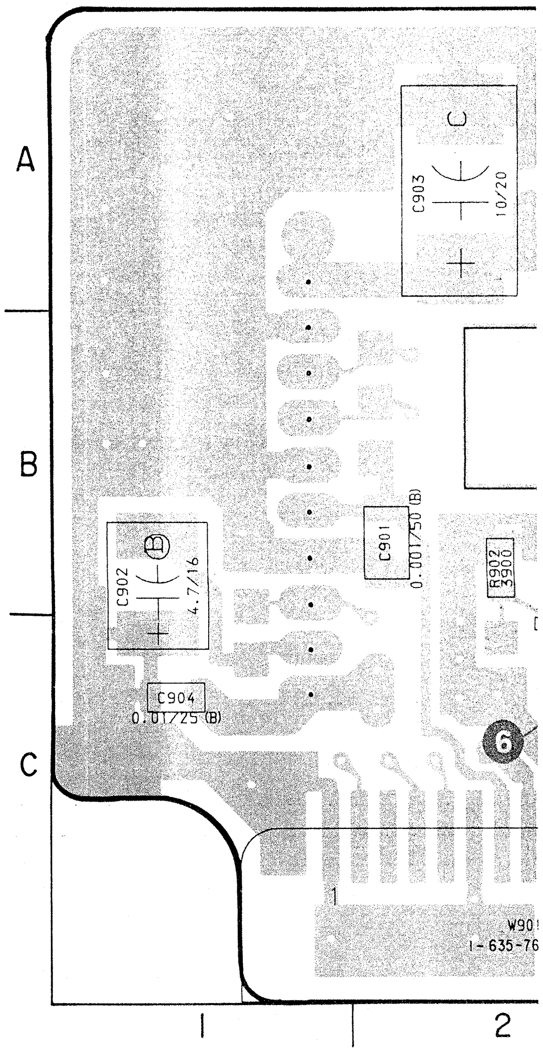

IC901
ICX045AK-1
CCD IMAGER
IC901 ICX045AK
N.C.
TP1
V4
V3
V2
V1
GND
VSS
VGG
CCD OUT
TP2
N.C.
H2
H1
N.C.
SUB
GND
PG
VL
VDD
C901 1000P B
C902 4.7 16V TA B
C903 10 20V TA C
R905 1.2K
C905 33 6.3V TA C
C906 1.5 16V TA A
R903 47K
R904 15K
JL901

Signalweg
Signal Path

	VIDEO SIGNAL		
	CHROMA	Y	Y/CHROMA/DATA
REC			⇛
PB			

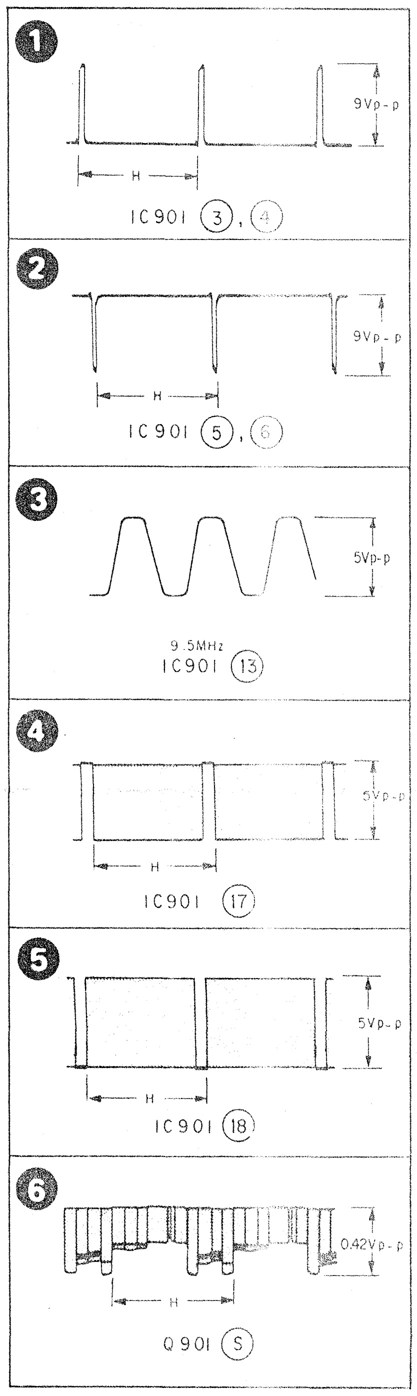
CD- 48 Platine (CCD-Sensor, Meh
CD- 48 (CCD Imager) Printed Wiri

CD-48 BOARD Bestückungsse
Component sid

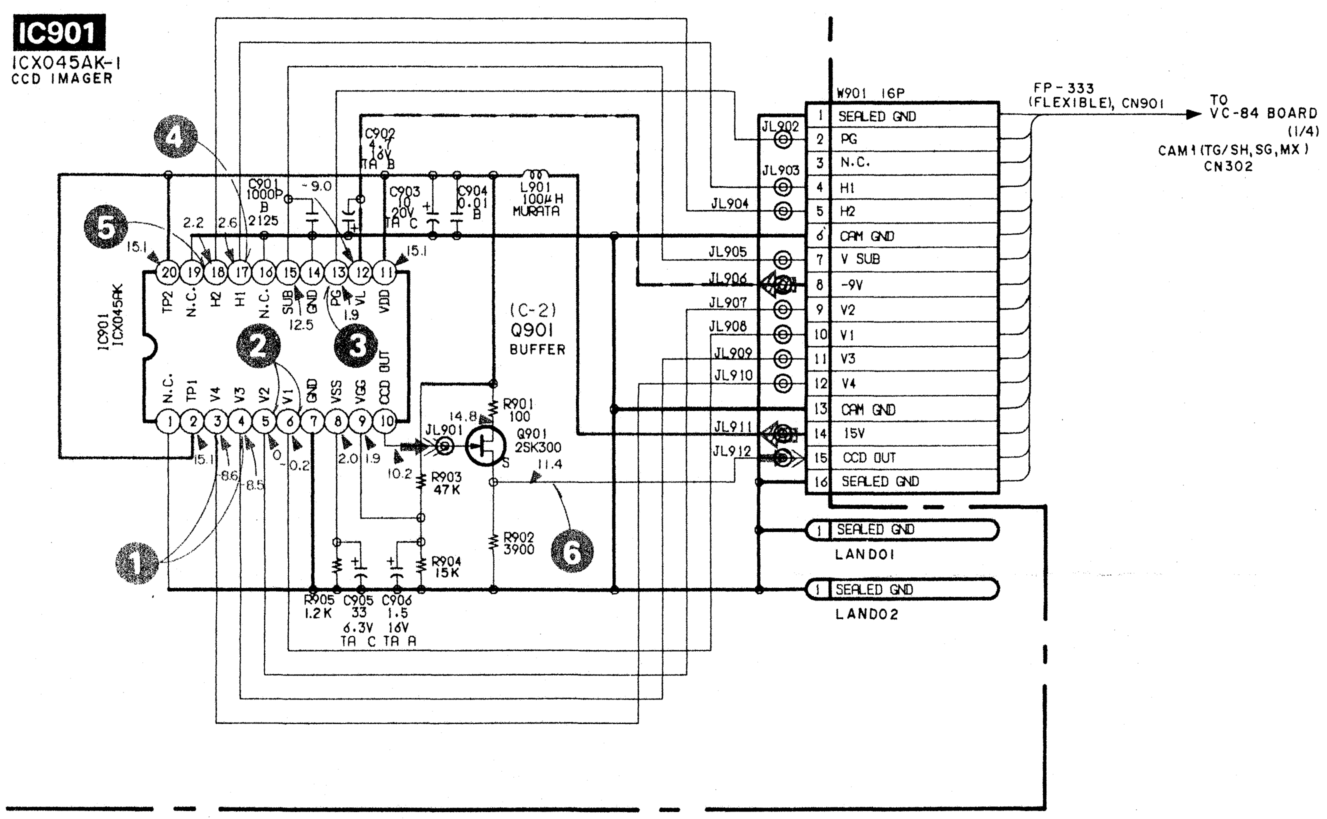

A
B
C
1
2
C903 10/20
C902 4.7/16
C901 0.001/50 (B)
C904 0.01/25 (B)
R902 3900
W901
1-635-76

Oszillogramme der CD- 48 Platine
CD- 48 Board Waveforms

CD-48 BOARD



:D-48 BOARD

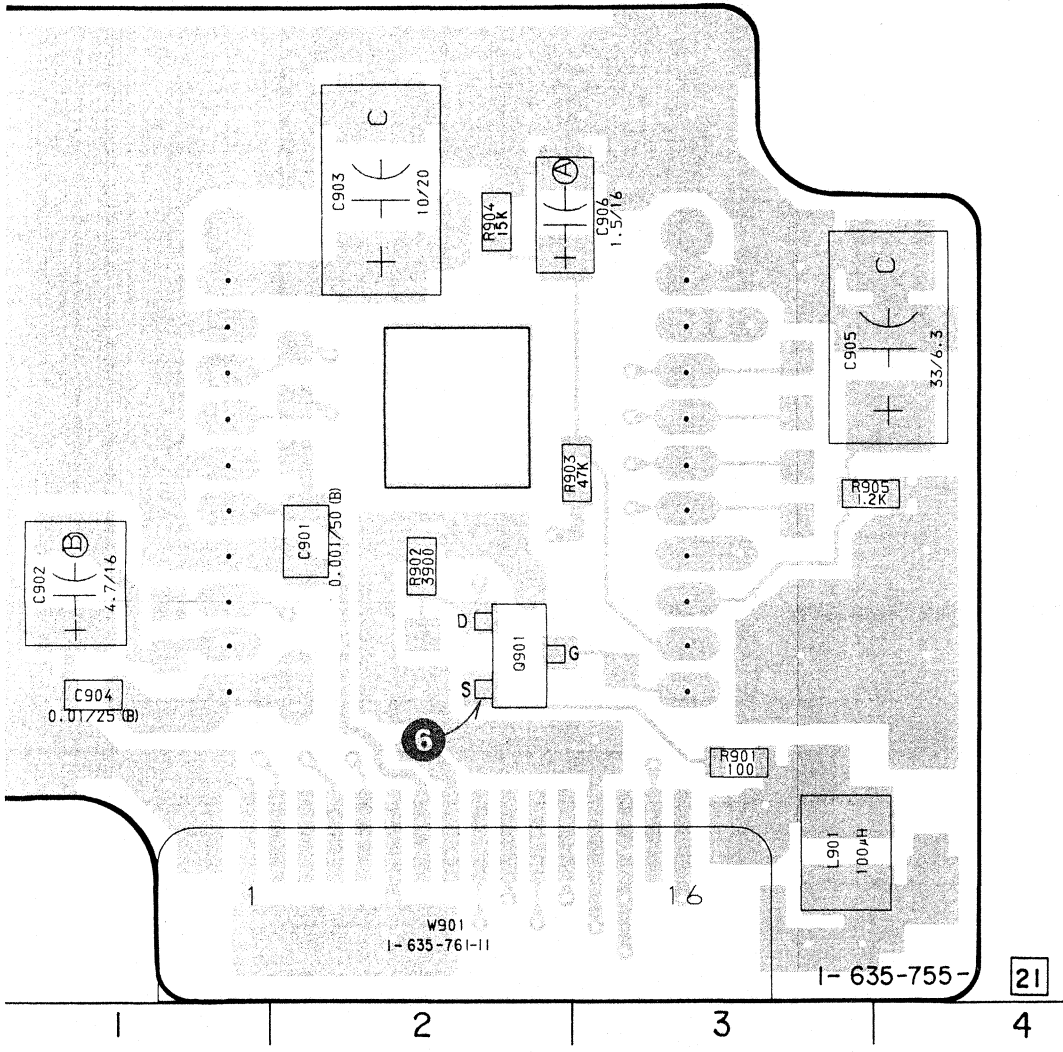

IC901
ICX045AK-1
CCD IMAGER
IC901
ICX045AK
N.C.
TP1
V4
V3
V2
V1
GND
VSS
VGG
CCD OUT
TP2
N.C.
H2
H1
N.C.
SUB
GND
PG
VL
VDD
15.1
2.2
2.6
2.125
12.5
1.9
15.1
-8.6
-8.5
0
-0.2
2.0
1.9
10.2
14.8
11.4
-9.0
C901
1000P
B
C902
4.7
16V
TA B
C903
10
20V
TA C
C904
0.01
B
L901
100μH
MURATA
(C-2)
Q901
BUFFER
R901
100
Q901
2SK300
JL901
R903
47K
R902
3900
R904
15K
R905
1.2K
C905
33
6.3V
TA C
C906
1.5
16V
TA A
W901 16P
JL902
JL903
JL904
JL905
JL906
JL907
JL908
JL909
JL910
JL911
JL912
1 SEALED GND
2 PG
3 N.C.
4 H1
5 H2
6 CAM GND
7 V SUB
8 -9V
9 V2
10 V1
11 V3
12 V4
13 CAM GND
14 15V
15 CCD OUT
16 SEALED GND
1 SEALED GND
LAND01
1 SEALED GND
LAND02
FP-333
(FLEXIBLE), CN901
TO
VC-84 BOARD
(1/4)
CAM1 (TG/SH, SG, MX)
CN302

nalweg
nal Path

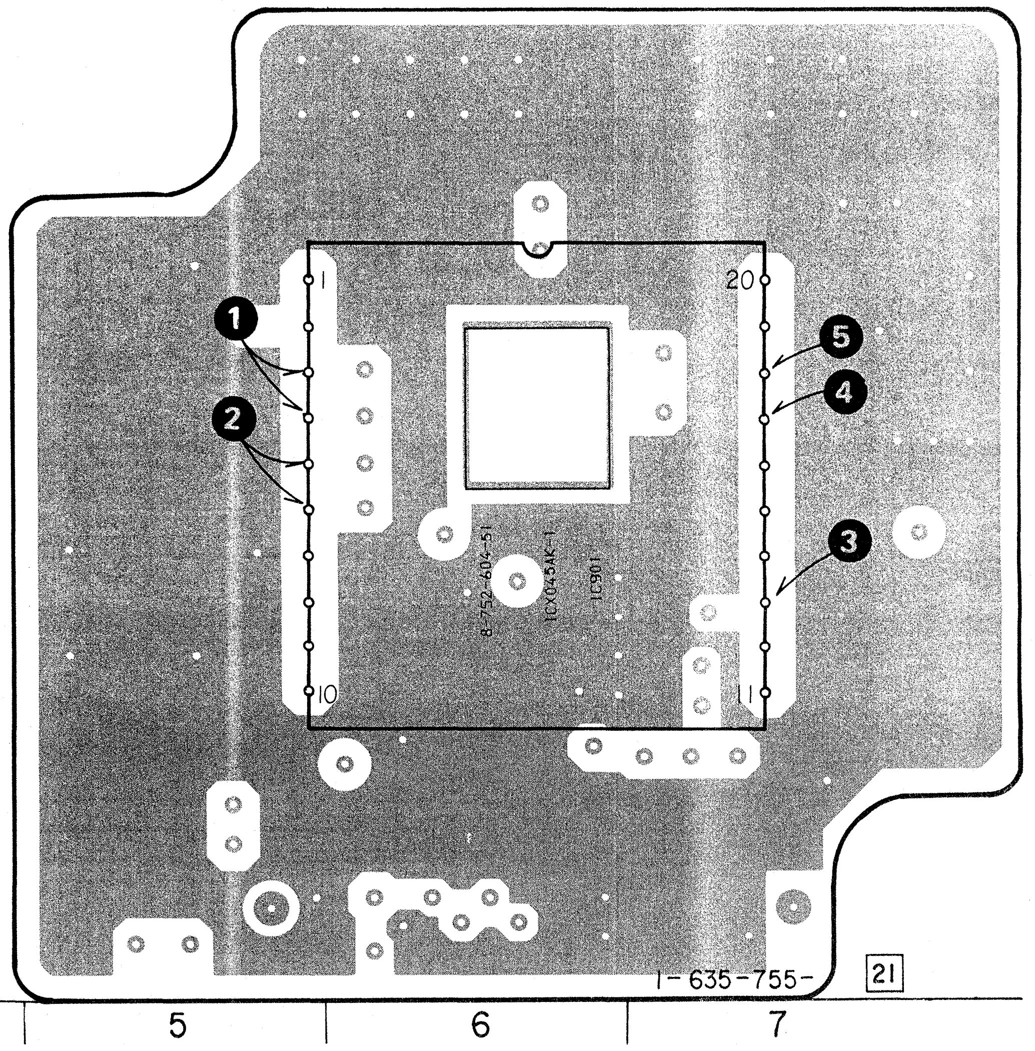
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
:C			⇛	
;				

)- 48 Platine (CCD-Sensor, Mehrschicht- Leiterplatte)
)- 48 (CCD Imager) Printed Wiring Board (multi layer wiring board)

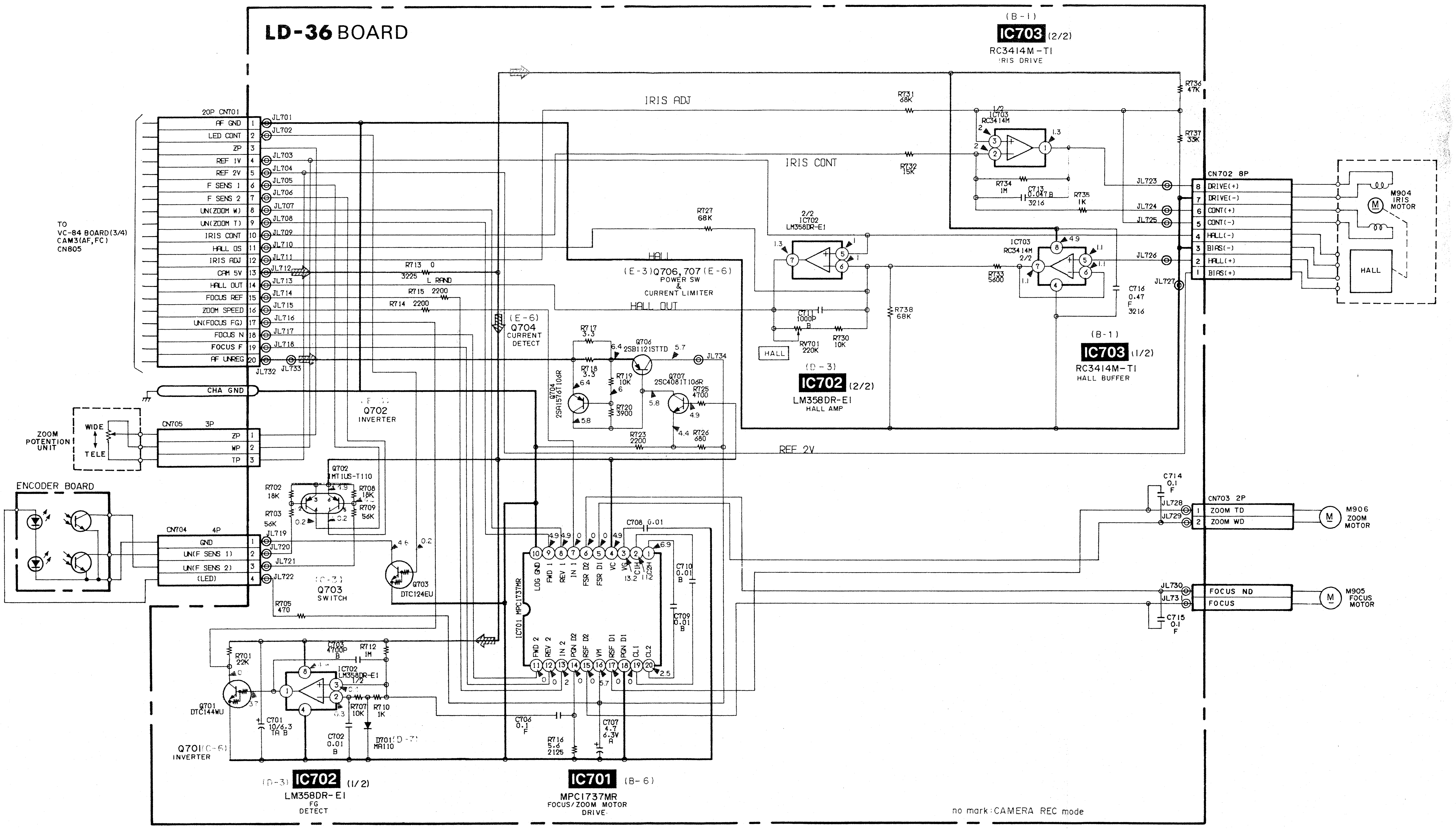
D-48 BOARD Bestückungsseite
Component side


C903
10/20
C
R904
15K
C906
1.5/16
A
C905
33/6.3
C
C901
0.001/50 (B)
R903
47K
R905
1.2K
C902
4.7/16
B
R902
3900
D
G
S
Q901
C904
0.01/25 (B)
6
R901
100
L901
100μH
1
16
W901
1-635-761-11
1-635-755-
21
1
2
3
4

CD-48 BOARD Lötseite
Conductor side


1
20
10
11
1
2
3
4
5
8-752-604-51
ICX045AK-1
IC901
1-635-755-
21
5
6
7

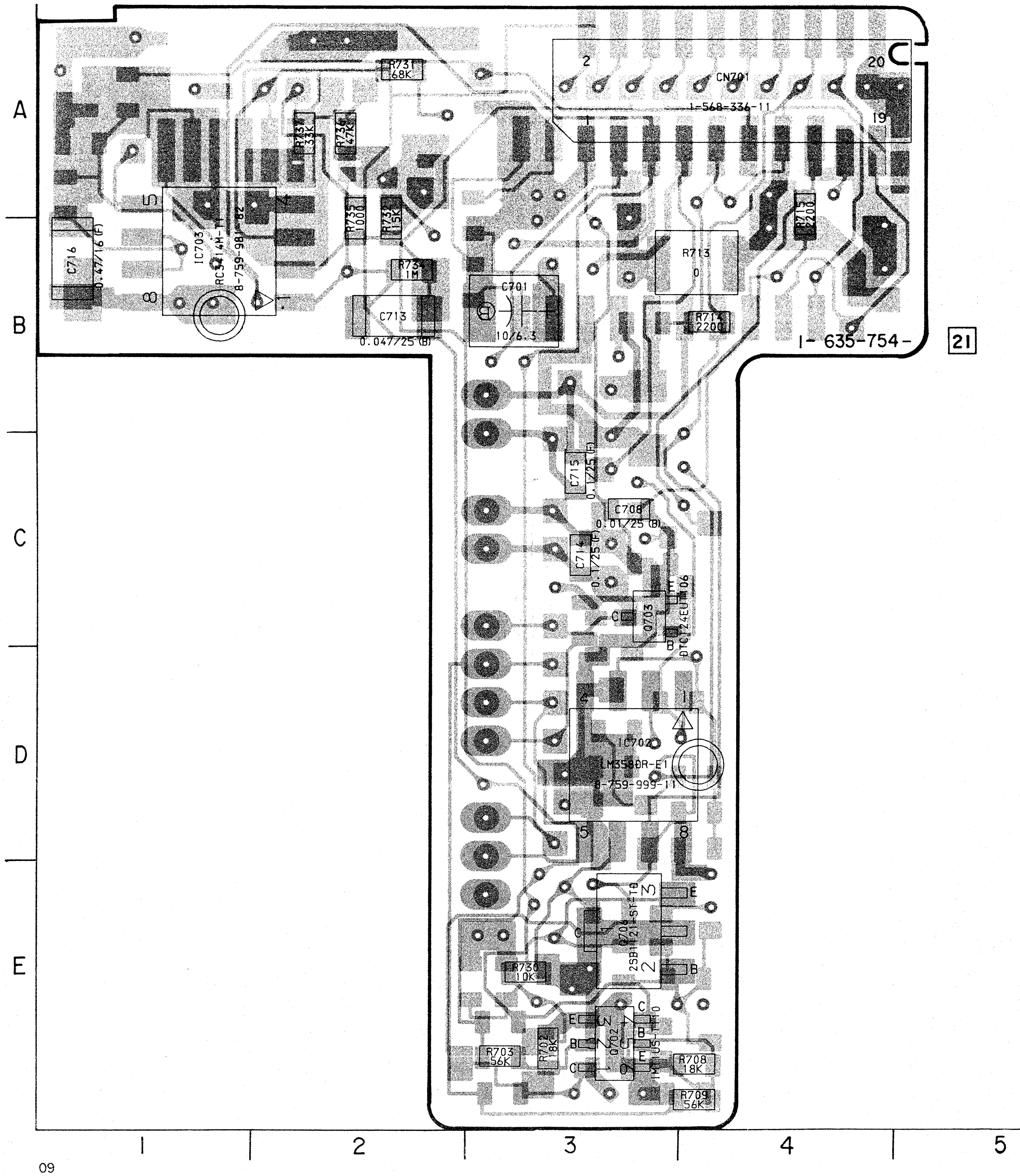
LD- 36 Schaltbild (Blende, Schärfe, Zoommotor-Treiber)
LD- 36 (Iris, Focus, Zoom Motor Drive) Schematic Diagram



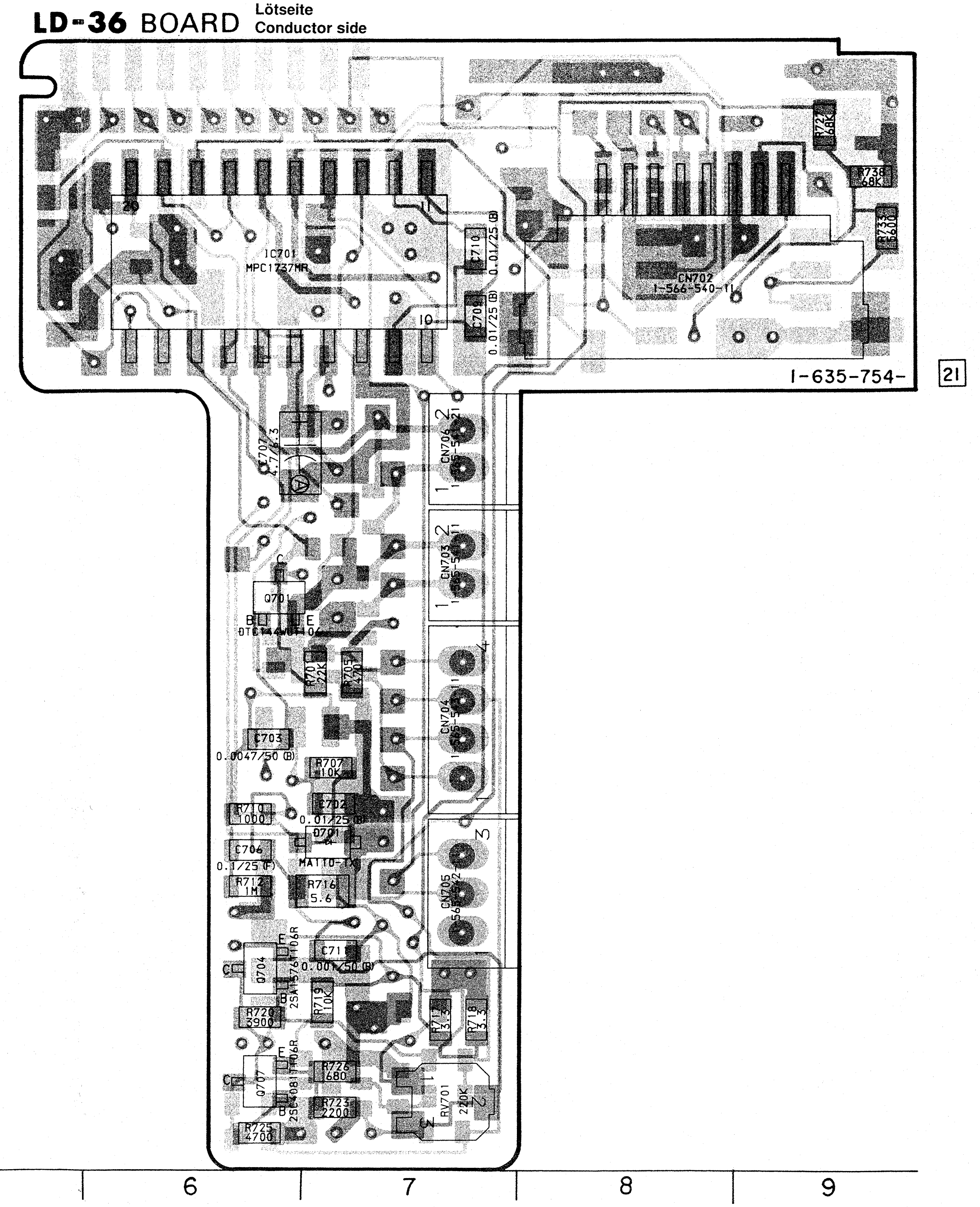
LD-36 BOARD
20P CN701
AF GND
LED CONT
ZP
REF 1V
REF 2V
F SENS 1
F SENS 2
UN(ZOOM W)
UN(ZOOM T)
IRIS CONT
HALL OS
IRIS ADJ
CAM 5V
HALL OUT
FOCUS REF
ZOOM SPEED
UN(FOCUS FG)
FOCUS N
FOCUS F
AF UNREG
TO VC-84 BOARD(3/4) CAM3(AF,FC) CN805
CHA GND
ZOOM POTENTION UNIT
WIDE
TELE
CN705 3P
ZP
WP
TP
ENCODER BOARD
CN704 4P
GND
UN(F SENS 1)
UN(F SENS 2)
(LED)
IC703 (2/2)
RC3414M-TI
IRIS DRIVE
IRIS ADJ
IRIS CONT
R731 68K
R732 15K
R734 1M
C713 0.047 B 3216
R735 1K
R736 47K
R737 33K
CN702 8P
DRIVE(+)
DRIVE(-)
CONT(+)
CONT(-)
HALL(-)
BIAS(-)
HALL(+)
BIAS(+)
M904 IRIS MOTOR
HALL
IC703 (1/2)
RC3414M-TI
HALL BUFFER
C716 0.47 F 3216
R733 5600
IC702 (2/2)
LM358DR-E1
HALL AMP
R727 68K
C711 1000P B
RV701 220K
R730 10K
R738 68K
(E-3)Q706,707(E-6)
POWER SW & CURRENT LIMITER
HALL
HALL OUT
Q704 CURRENT DETECT
2SA1576T106R
R717 3.3
R718 3.3
R719 10K
R720 3900
R723 2200
Q706 2SB1121STTD
Q707 2SC4081T106R
R725 4700
R726 680
REF 2V
R713 0
R715 2200
R714 2200
L RAND
Q702 INVERTER
Q702 MT1US-T110
R702 18K
R703 56K
R708 18K
R709 56K
Q703 SWITCH
Q703 DTC124EU
R705 470
C714 0.1 F
CN703 2P
ZOOM TD
ZOOM WD
M906 ZOOM MOTOR
FOCUS ND
FOCUS
M905 FOCUS MOTOR
C715 0.1 F
C708 0.01
C710 0.01 B
C709 0.01 B
LOG GND
FWD 1
REV 1
IN 1
FSR D2
FSR D1
VC
VG
C1H
C2H
FWD 2
REV 2
IN 2
PGN D2
RSF D2
VH
RSF D1
PGN D1
CL1
CL2
IC701 MPC1737MR
C706 0.1 F
R716 5.6 2125
C707 4.7 6.3V A
R701 22K
Q701 DTC144WU
C701 10/6.3 TA B
C703 4700P B
R712 1M
R707 10K
R710 1K
C702 0.01 B
D701 MA110
Q701 INVERTER
IC702 (1/2)
LM358DR-E1
FG DETECT
IC701 (B-6)
MPC1737MR
FOCUS/ZOOM MOTOR DRIVE
no mark: CAMERA REC mode

LD- 36 Platine (Blende, Schärfe, Zoommotor-Treiber, Mehrschicht- Leiterplatte)
LD- 36 (Iris, Focus, Zoom Motor Drive) Printed Wiring Board (multi layer wiring board)

LD-36 BOARD Bestückungsseite Component side


A
B
C
D
E
1
2
3
4
5
CN701
1-568-336-11
R731 68K
R734 33K
R736 47K
IC703
C716 0.47/16 (F)
R735 1000
R732 15K
R733 1M
C713 0.047/25 (B)
C701 10/6.3
R713 0
R715 2200
R714 2200
1- 635-754-
21
C715 0.1/25 (F)
C708 0.01/25 (B)
C714 0.1/25 (F)
Q703 DTC124EUT106
IC702 LM358OR-E1 8-759-999-11
Q706 2SB1121-ST-TB
R730 10K
Q702
R703 56K
R702 18K
R708 18K
R709 56K

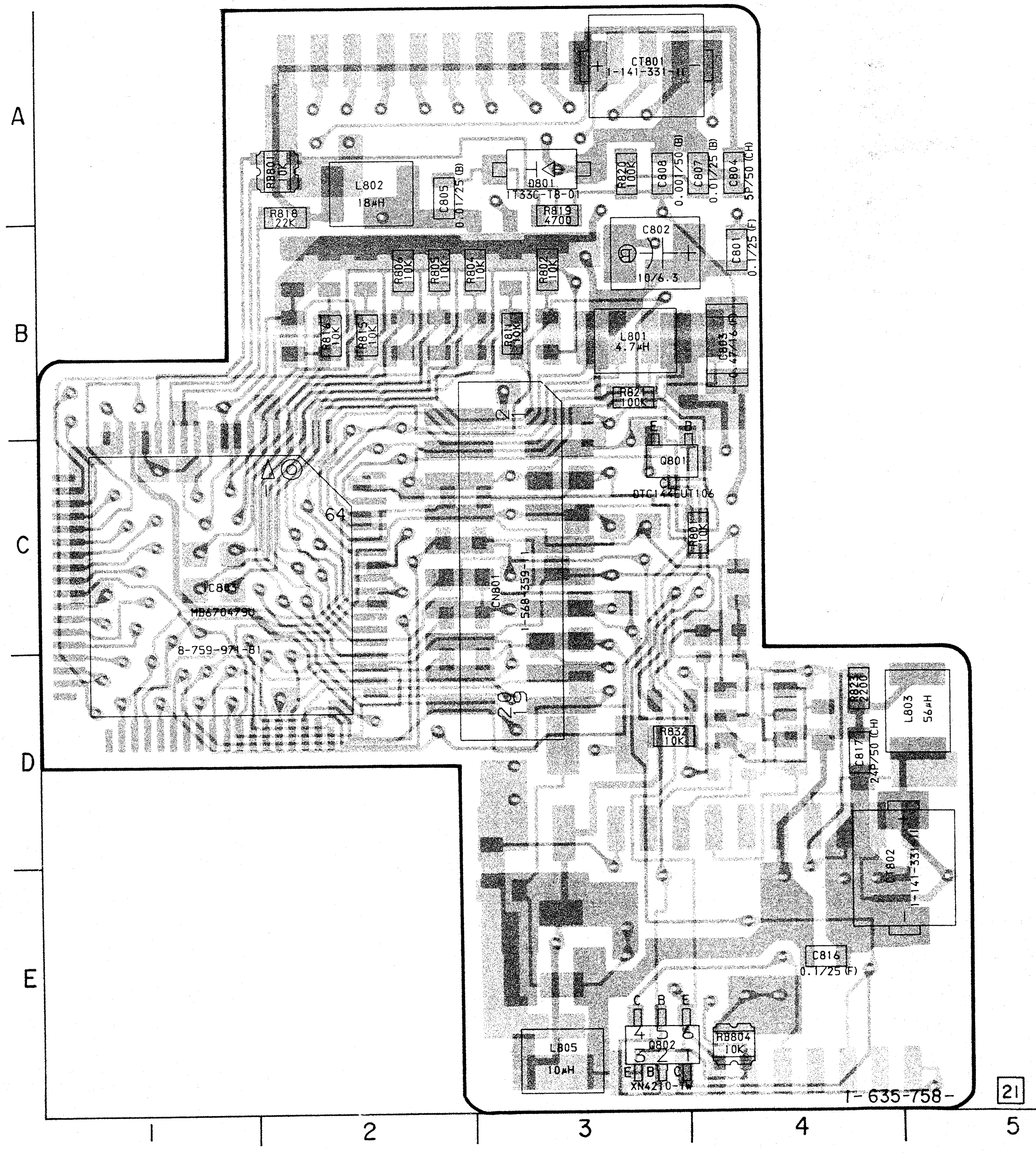
LD-36 BOARD Lötseite Conductor side


6
7
8
9
21
IC701 MPC1737HR
CN702 1-566-540-11
R727 68K
R738 68K
R737 5600
C710 0.01/25 (B)
C709 0.01/25 (B)
1-635-754-
C707 4.7/6.3
CN706
CN703
Q701 DTC144WUT106
R701 22K
R705 4700
CN704
C703 0.0047/50 (B)
R707 10K
R710 1000
C702 0.01/25 (B)
D701 MA110-TX
C706 0.1/25 (F)
R712 1M
R716 5.6
CN705
Q704 2SA1576-T106R
C711 0.001/50 (B)
R720 3900
R719 10K
R717 3.3
R718 3.3
Q707 2SB1081-T106R
R726 680
R723 2200
R725 4700
RV701 220K

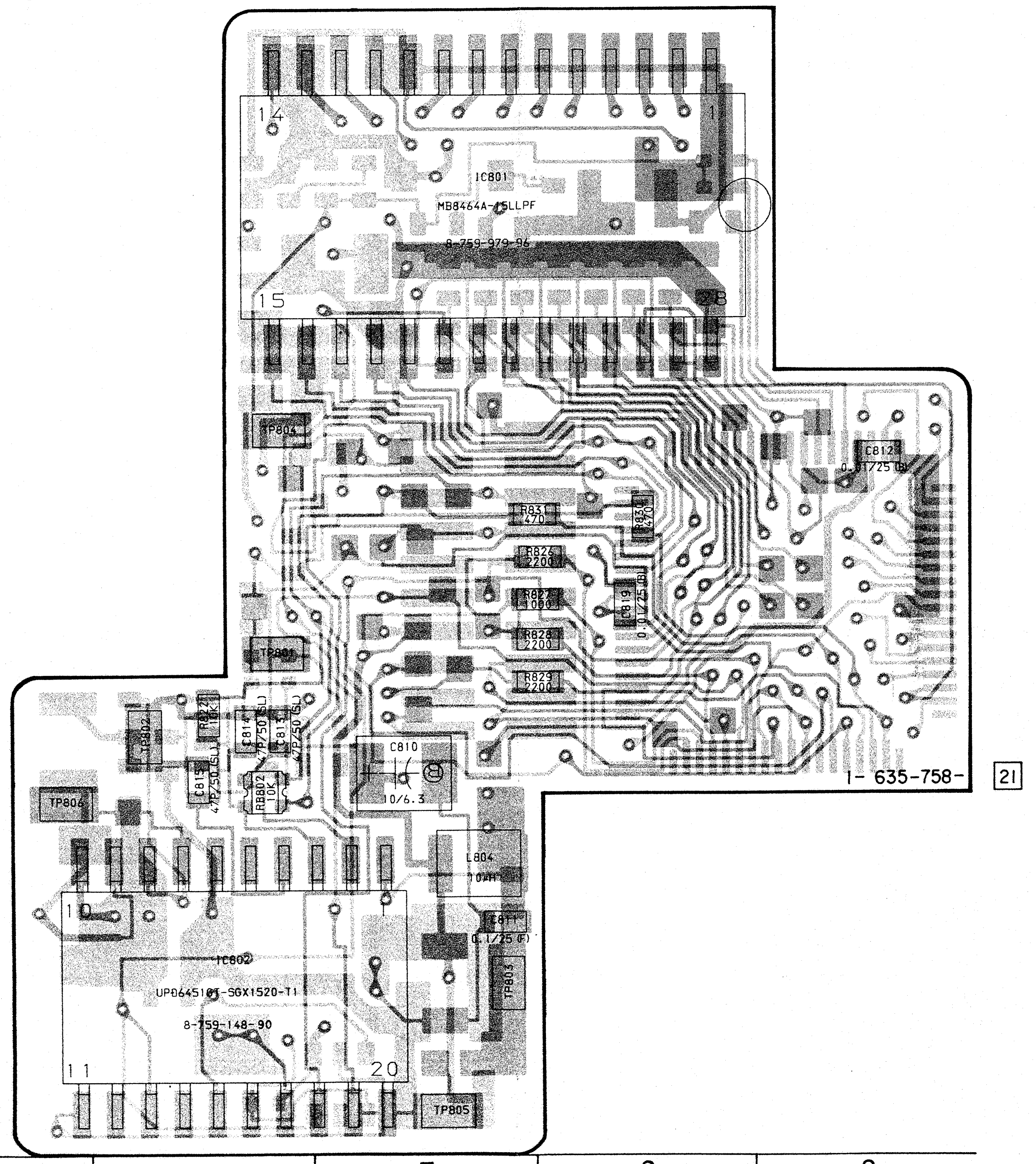
09

TI- 31 Platine (Titelspeicher, Mehrschicht- Leiterplatte)
TI- 31 (Digital Titler) Printed Wiring Board (multi layer wiring board)

TI-31 BOARD Bestückungsseite
Component side

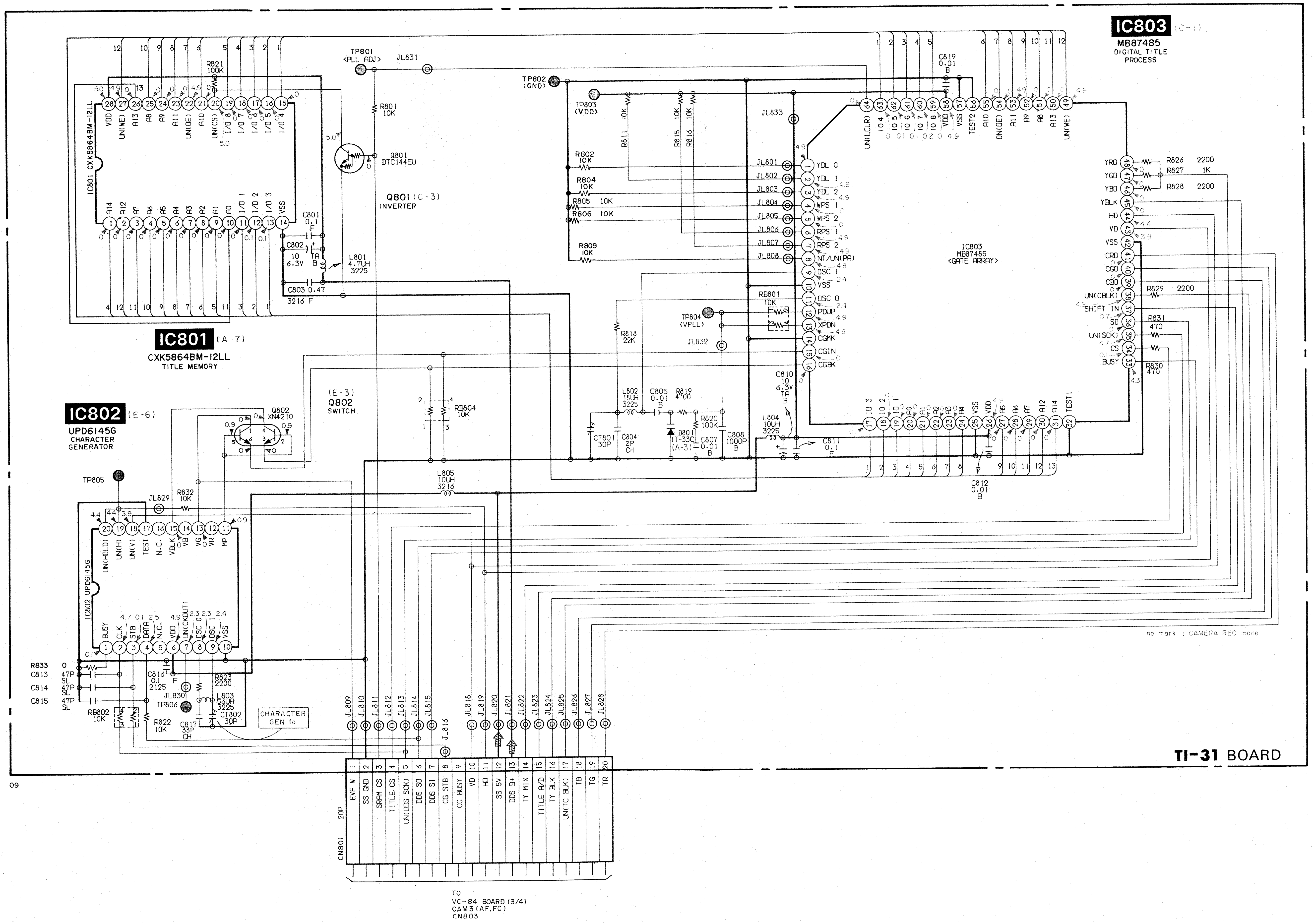

A
B
C
D
E
1
2
3
4
5
CT801
1-141-331-11
L802
18μH
R801
R818
22K
C805
0.01/25 (B)
Q801
1T33C-18-01
R820
R819
4700
C808
0.001/50 (B)
C807
0.01/25 (B)
C804
5P/50 (CH)
C802
10/6.3
C801
0.1/25 (F)
R806
10K
R805
10K
R804
10K
R802
10K
R814
10K
R815
10K
R817
10K
L801
4.7μH
C803
47/16 (F)
R821
100K
Q801
DTC144EUT106
64
1
IC803
MB670479U
8-759-971-81
CN801
1-568-359-11
R832
10K
R833
L803
56μH
C817
24P/50 (CH)
CT802
1-141-331
C816
0.1/25 (F)
L805
10μH
Q802
XN4210-TV
RB804
10K
1-635-758-
21

TI-31 BOARD Lötseite
Conductor side


14
1
IC801
MB8464A-15LLPF
8-759-979-96
15
28
TP804
C812
0.01/25 (B)
R831
470
R830
470
R826
2200
R827
1000
C819
0.01/25 (B)
R828
2200
R823
2200
TP801
RB802
R822
10K
C814
47P/50 (SL)
C813
47P/50 (SL)
C815
47P/50 (SL)
RB802
10K
C810
10/6.3
TP806
L804
10μH
C811
0.1/25 (F)
10
1
IC802
UPD6451GT-SGX1520-T1
8-759-148-90
11
20
TP803
TP805
1-635-758-
21

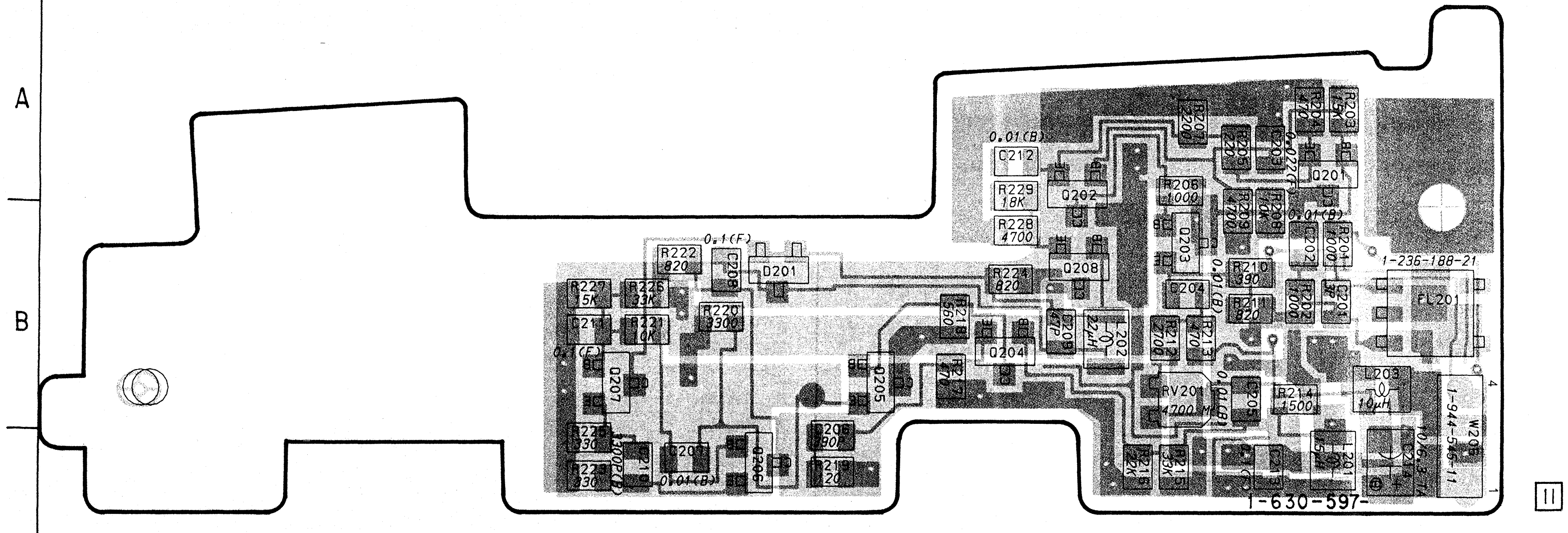
6 7 8 9

TI- 31 Schaltbild (Titelspeicher)
TI- 31 (Digital Titler) Schematic Diagram

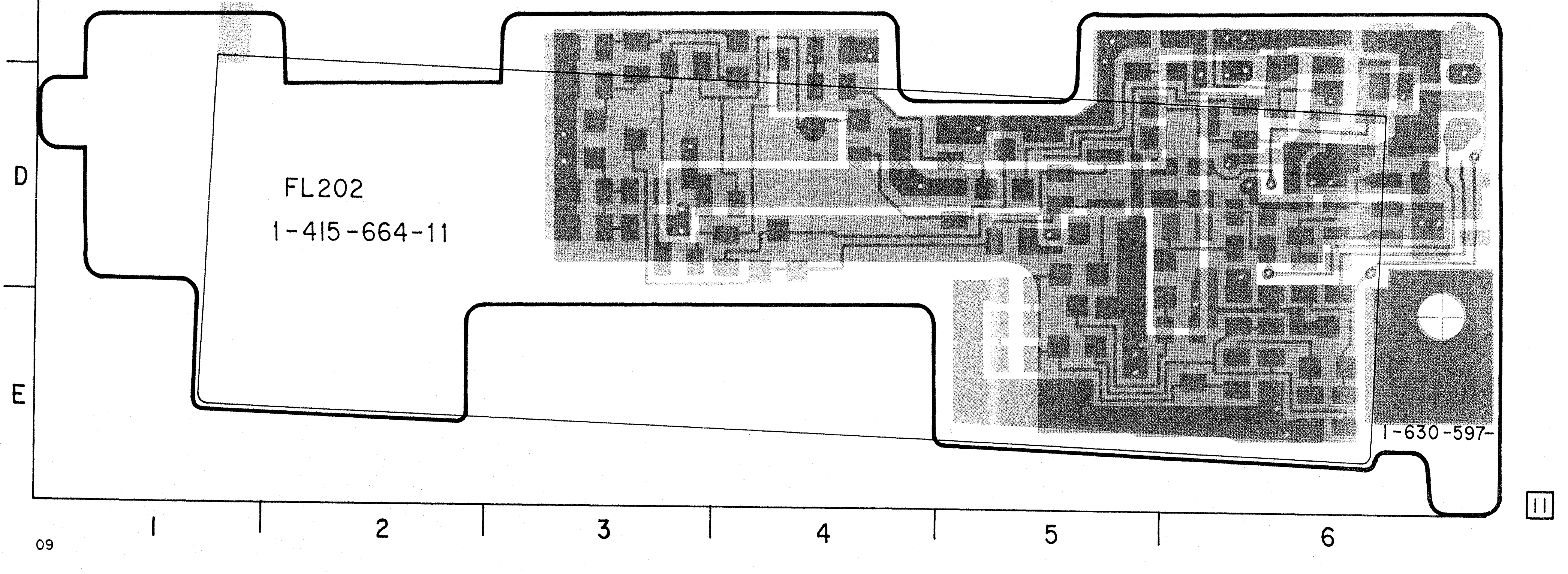

IC803 (C-1)
MB87485
DIGITAL TITLE PROCESS
IC803 MB87485 <GATE ARRAY>
IC801 (A-7)
CXK5864BM-12LL
TITLE MEMORY
IC802 (E-6)
UPD6145G
CHARACTER GENERATOR
Q801 (C-3)
INVERTER
Q801 DTC144EU
(E-3) Q802 SWITCH
Q802 XN4210
TP801 <PLL ADJ>
TP802 (GND)
TP803 (VDD)
TP804 (VPLL)
TP805
TP806
JL831
JL833
JL832
JL829
JL830
R821 100K
R801 10K
R802 10K
R804 10K
R805 10K
R806 10K
R809 10K
R811 10K
R815 10K
R816 10K
R818 22K
R819 4700
R820 100K
R826 2200
R827 1K
R828 2200
R829 2200
R831 470
R830 470
R832 10K
R833 0
R822 10K
R823 2200
RB801 10K
RB802 10K
RB804 10K
C801 0.1 F
C802 10 6.3V TA B
C803 0.47 3216 F
C805 0.01 B
C807 0.01 B
C808 1000P B
C810 10 6.3V TA B
C811 0.1 F
C812 0.01 B
C819 0.01 B
C804 2P CH
C813 47P SL
C814 47P SL
C815 47P SL
C816 0.1 F 2125
C817 33P CH
CT801 30P
CT802 30P
L801 4.7UH 3225
L802 18UH 3225
L803 330UH 3225
L804 10UH 3225
L805 10UH 3216
D801 1T-33C (A-3)
CHARACTER GEN fo
YDL 0
YDL 1
YDL 2
WPS 1
WPS 2
RPS 1
RPS 2
NT/UN(PA)
OSC 1
VSS
OSC 0
PDUP
XPDN
CGMK
CGIN
CGBK
YR0
YG0
YB0
YBLK
HD
VD
VSS
CR0
CG0
CB0
UN(CBLK)
SHIFT IN
S0
UN(SCK)
CS
BUSY
TEST1
TEST2
UN(LCLR)
UN(OE)
UN(WE)
UN(CS)
UN(HOLD)
UN(H)
UN(V)
TEST
N.C.
VBLK
VB
VG
VR
HP
CLK
STB
DATA
VDD
UN(CKOUT)
OSC 0
OSC 1
JL801
JL802
JL803
JL804
JL805
JL806
JL807
JL808
JL809
JL810
JL811
JL812
JL813
JL814
JL815
JL816
JL818
JL819
JL820
JL821
JL822
JL823
JL824
JL825
JL826
JL827
JL828
CN801 20P
1 EVF W
2 SS GND
3 SRAM CS
4 TITLE CS
5 UN(DDS SCK)
6 DDS S0
7 DDS S1
8 CG STB
9 CG BUSY
10 VD
11 HD
12 SS 5V
13 DDS B+
14 TY MIX
15 TITLE A/D
16 TY BLK
17 UN(TC BLK)
18 TB
19 TG
20 TR
TO VC-84 BOARD (3/4) CAM3(AF,FC) CN803
no mark : CAMERA REC mode
TI-31 BOARD
09

PD- 18 Platine (Farb- Rauschunterdrückung)
PD- 18 (Chroma Noise Reduction) Printed Wiring Board

PD-18 BOARD Bestückungsseite Component side

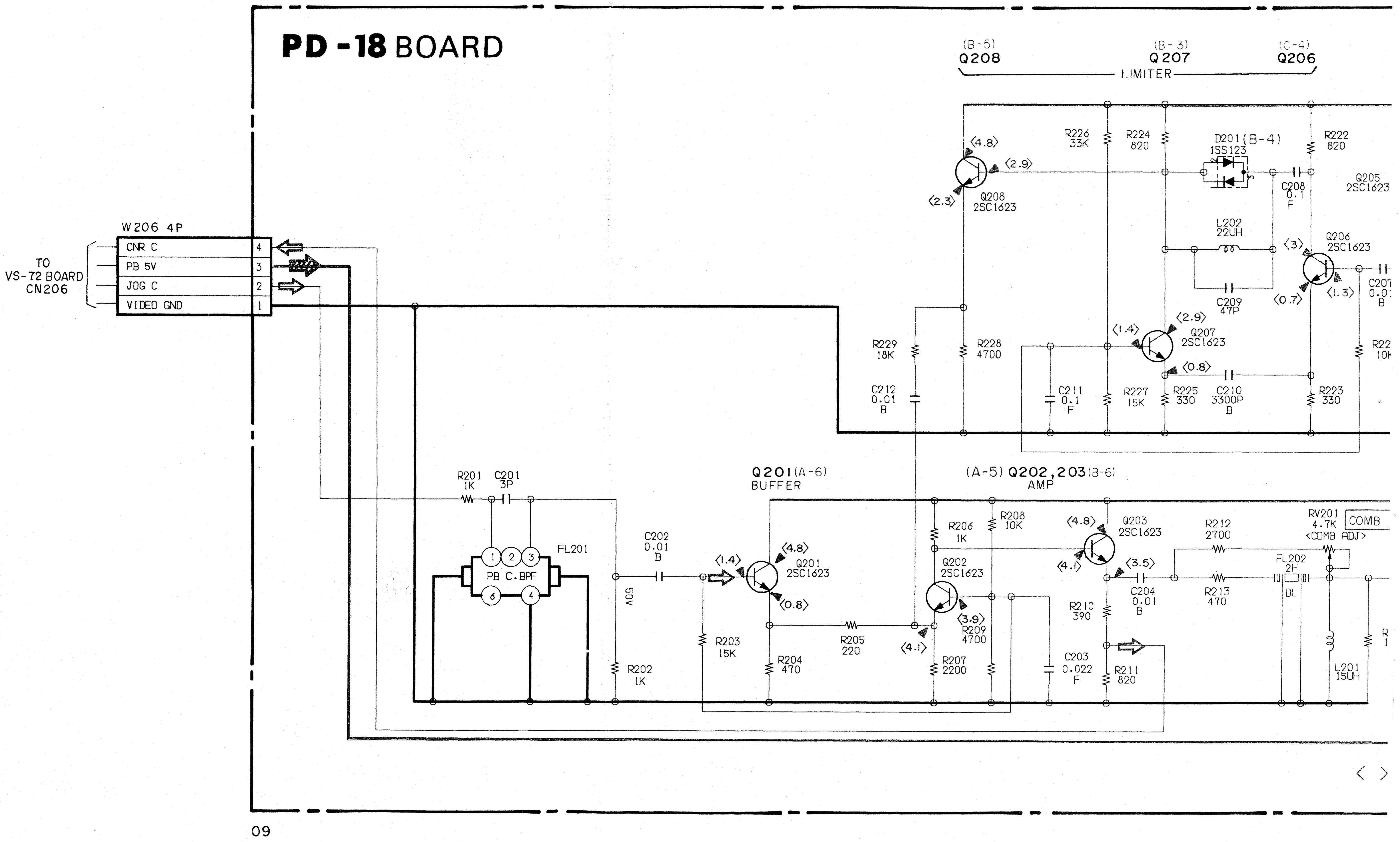

A
B
C
R203 15K
R204 470
Q201
R201 1000
C201 3P
C202
R202 1000
C203
R208 10K
R210 390
R211 820
R205 220
R209 4700
C205
R207 2200
R206 1000
Q203
D204
R213 470
RV201 4700
R215 33K
R212 2700
R216 22K
L202 22μH
Q202
Q208
C209 47P
C212
R229 18K
R228 4700
R224 820
Q204
R218 560
R217 470
Q205
R219 120
D201
C208
R220 3300
R222 820
R226 33K
R227 15K
C211
R221 10K
Q207
Q206
C210
R223 330
R225 330
C213
C214
L201
L203 10μH
R214 1500
FL201
1-236-188-21
W205
1-944-545-11
10/6.3 TA
0.01(B)
0.022(F)
0.1(F)
100P(B)
1-630-597-
4
1
II

PD-18 BOARD Lötseite Conductor side

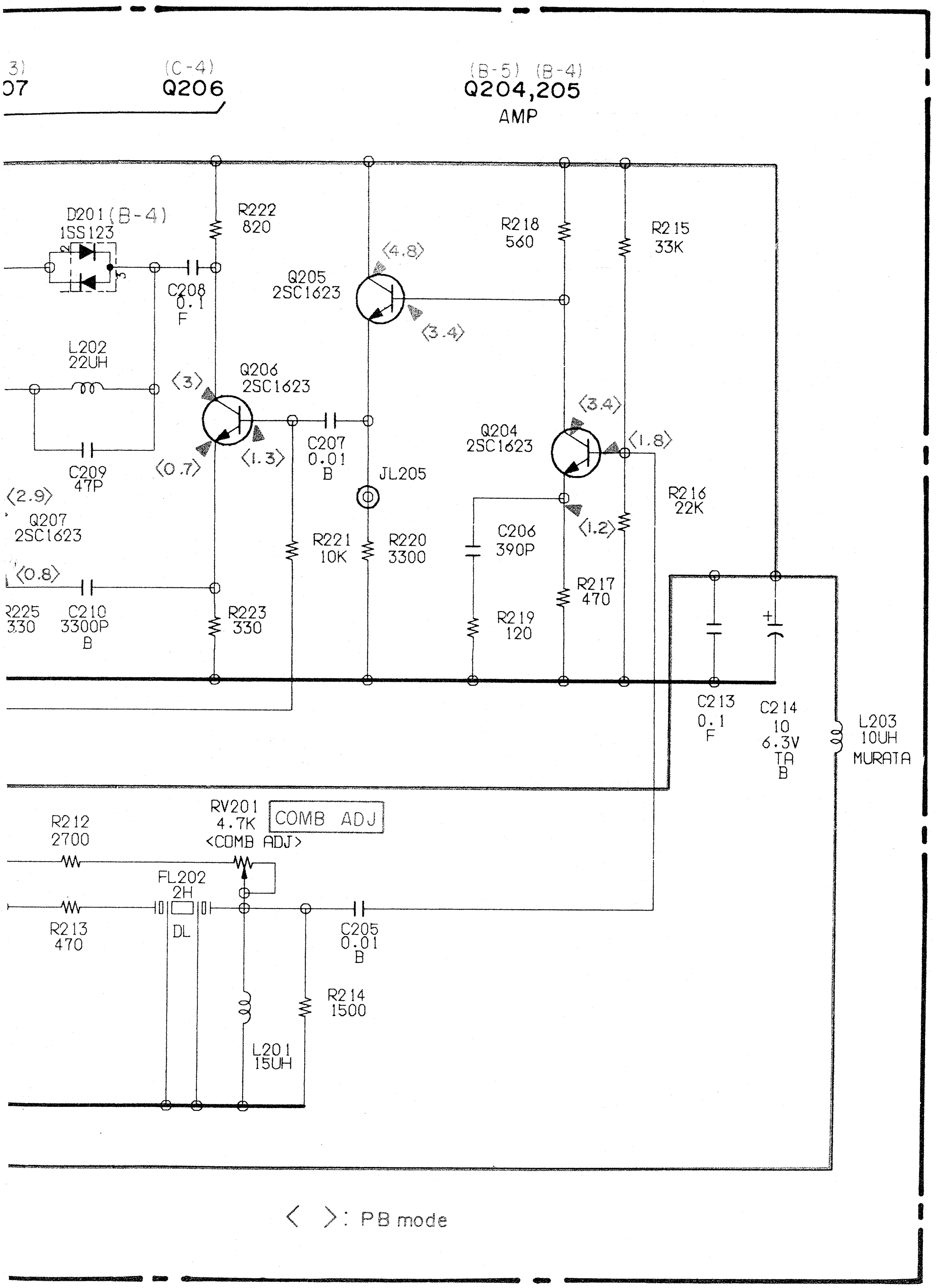

D
E
FL202
1-415-664-11
1-630-597-
II
09
1
2
3
4
5
6

PD- 18 Schaltbild (Farb- Rauschunterdrückung)
PD- 18 (Chroma Noise Reduction) Schematic Diagram

PD- 18 Schaltb
PD- 18 (Chrom


PD -18 BOARD
(B-5) Q208
(B-3) Q207
(C-4) Q206
LIMITER
W206 4P
TO VS-72 BOARD CN206
CNR C
PB 5V
JOG C
VIDEO GND
4
3
2
1
R226 33K
R224 820
D201(B-4) 1SS123
R222 820
Q208 2SC1623
C208 0.1 F
Q205 2SC1623
L202 22UH
Q206 2SC1623
C209 47P
Q207 2SC1623
R229 18K
R228 4700
C212 0.01 B
C211 0.1 F
R227 15K
R225 330
C210 3300P B
R223 330
C207 0.0 B
R22 10K
R201 1K
C201 3P
FL201
PB C.BPF
C202 0.01 B
50V
R202 1K
Q201(A-6) BUFFER
Q201 2SC1623
R203 15K
R204 470
R205 220
(A-5) Q202,203(B-6) AMP
R206 1K
R208 10K
Q202 2SC1623
Q203 2SC1623
R209 4700
R207 2200
R210 390
C203 0.022 F
R211 820
C204 0.01 B
R212 2700
R213 470
RV201 4.7K COMB <COMB ADJ>
FL202 2H DL
L201 15UH
<4.8> <2.9> <2.3> <3> <0.7> <1.3> <1.4> <0.8> <4.1> <3.9> <3.5>
09

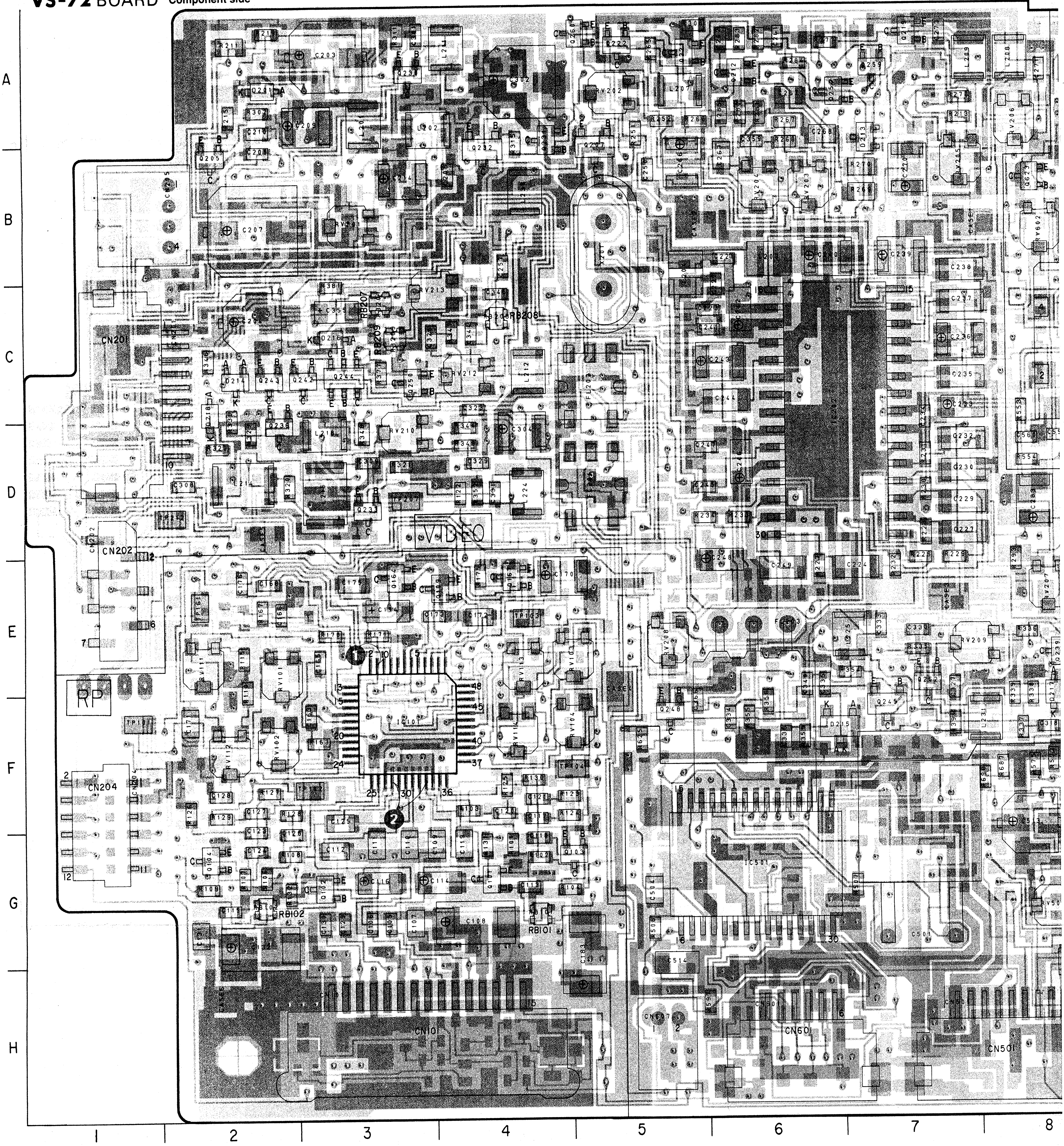
PD- 18 Schaltbild (Farb- Rauschunterdrückung)
PD- 18 (Chroma Noise Reduction) Schematic Diagram


(C-4)
Q206
(B-5) (B-4)
Q204,205
AMP
D201(B-4)
1SS123
R222
820
C208
0.1
F
Q205
2SC1623
(4.8)
(3.4)
R218
560
R215
33K
L202
22UH
Q206
2SC1623
(3)
(0.7)
(1.3)
C209
47P
C207
0.01
B
JL205
(2.9)
Q207
2SC1623
(0.8)
Q204
2SC1623
(3.4)
(1.8)
(1.2)
R216
22K
C206
390P
R221
10K
R220
3300
R217
470
R219
120
C210
3300P
B
330
R223
330
C213
0.1
F
C214
10
6.3V
TA
B
L203
10UH
MURATA
RV201
4.7K
<COMB ADJ>
COMB ADJ
R212
2700
FL202
2H
DL
R213
470
C205
0.01
B
R214
1500
L201
15UH
< >: PB mode

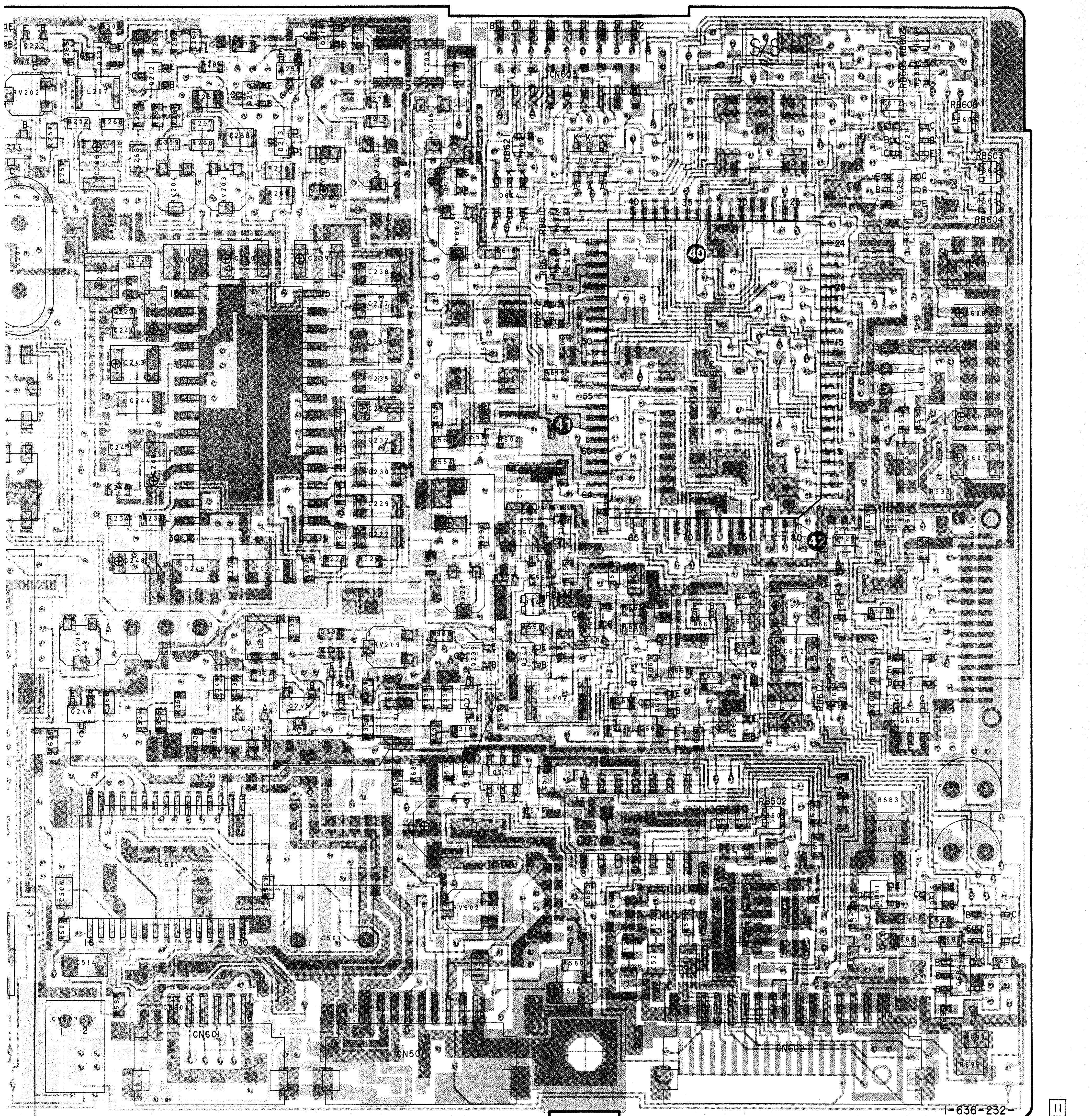
Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC				
PB	⇨			

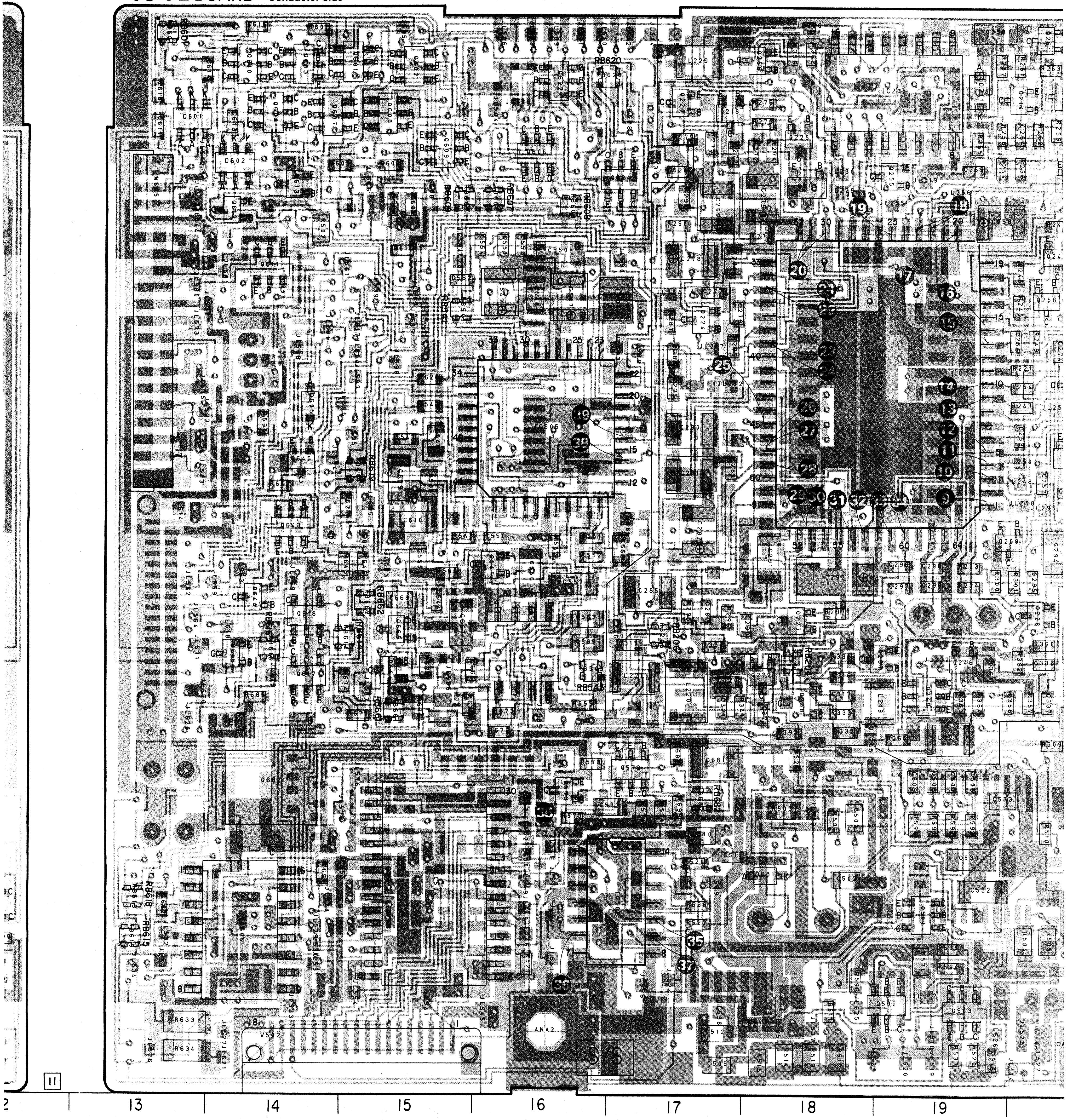
VS-72 BOARD Bestückungsseite Component side

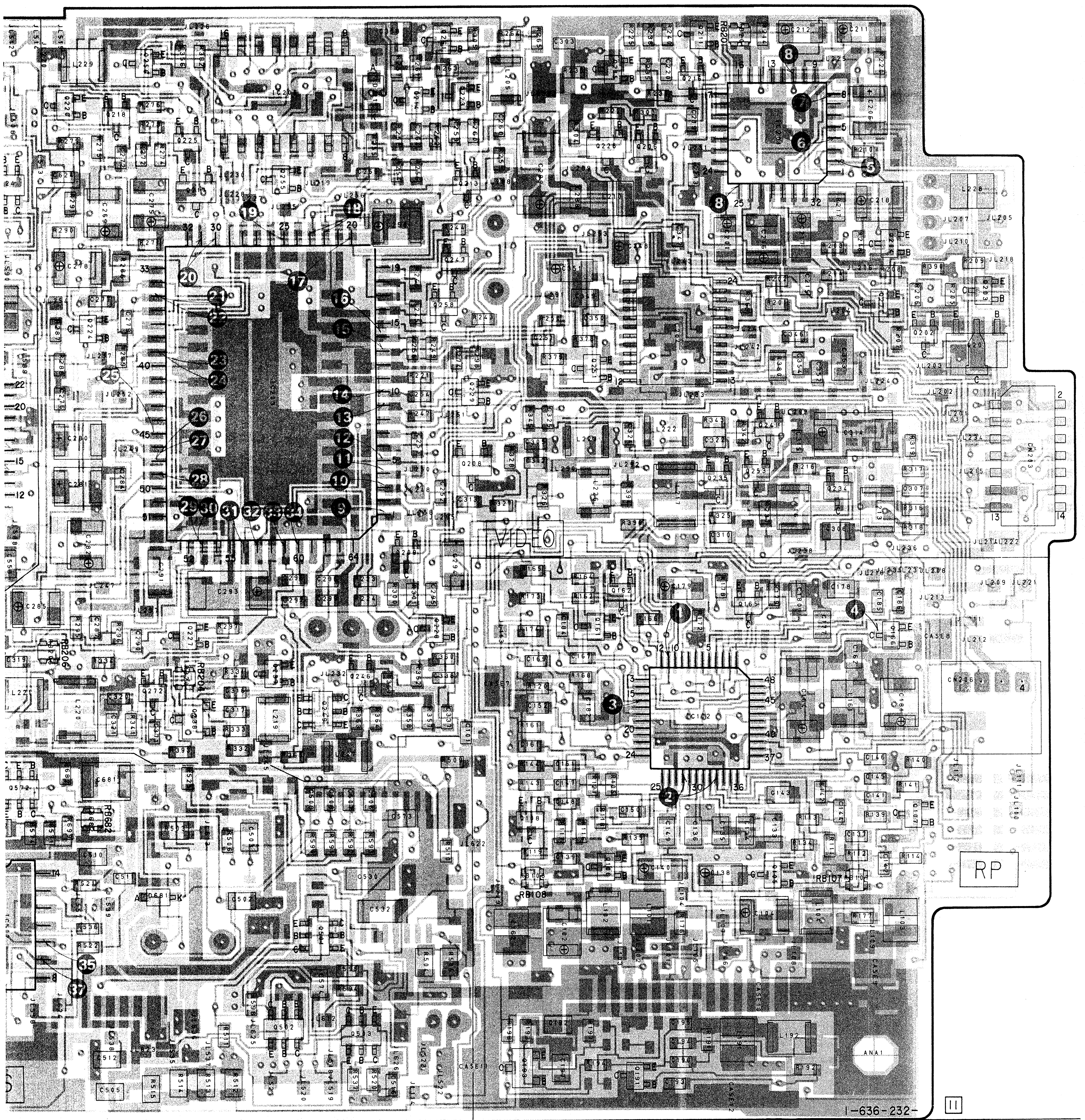


A
B
C
D
E
F
G
H
1
2
3
4
5
6
7
8
CN201
CN202
CN204
CN101
CN501
CN601
CN607
IC101
IC202
IC501
VIDEO
RP
X201
FL203
C207
C203
C302
C355
RB207
RB208
RB209
RB101
RB102
C501
C514


CN603
IC202
IC602
IC501
CN601
CN501
CN602
CN607
RB502
RB617
RB621
RB612
RB610
RB603
RB604
RB605
RB606
S/S
40
41
42
1-636-232-
11
5
6
7
8
9
10
11
12

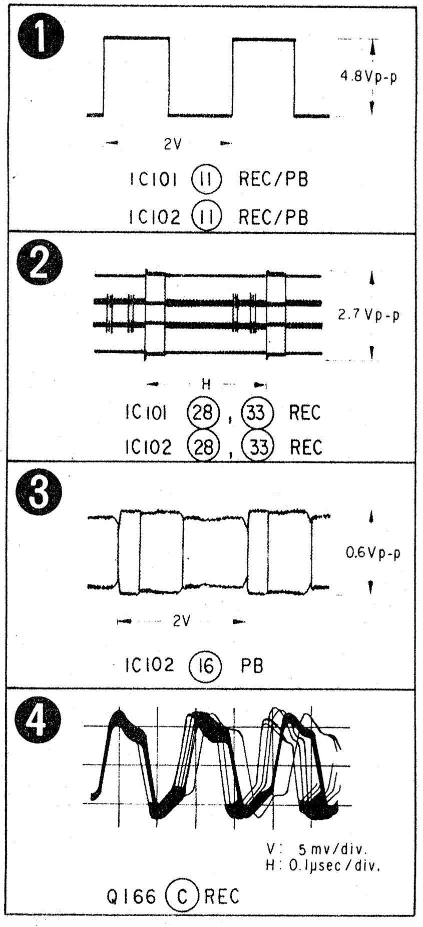
VS-72 BOARD
Lötseite
Conductor side

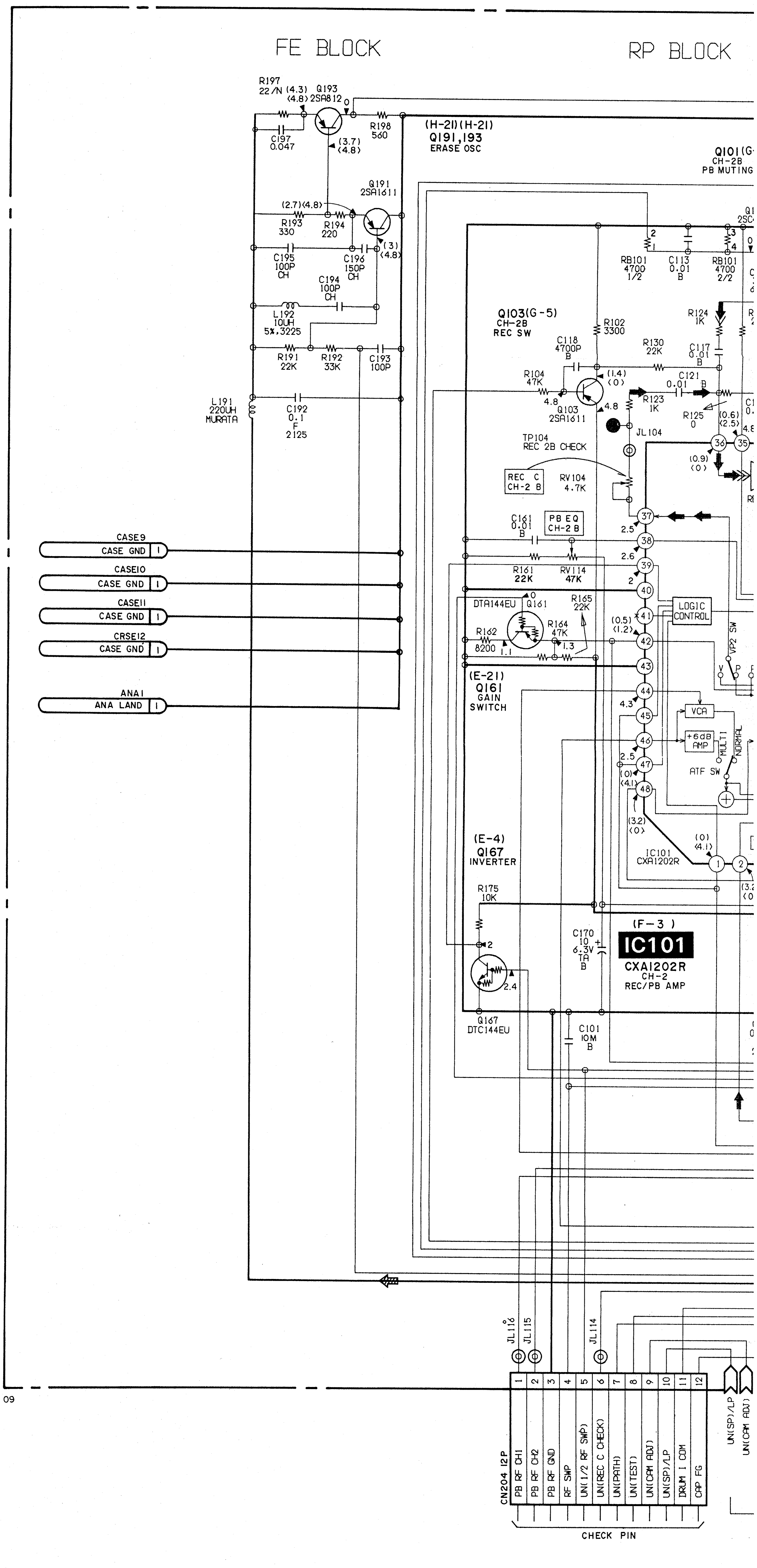

II
13
14
15
16
17
18
19
Q601
Q602
RB620
RB607
RB608
RB662
RB682
IC205
ANA2
W502

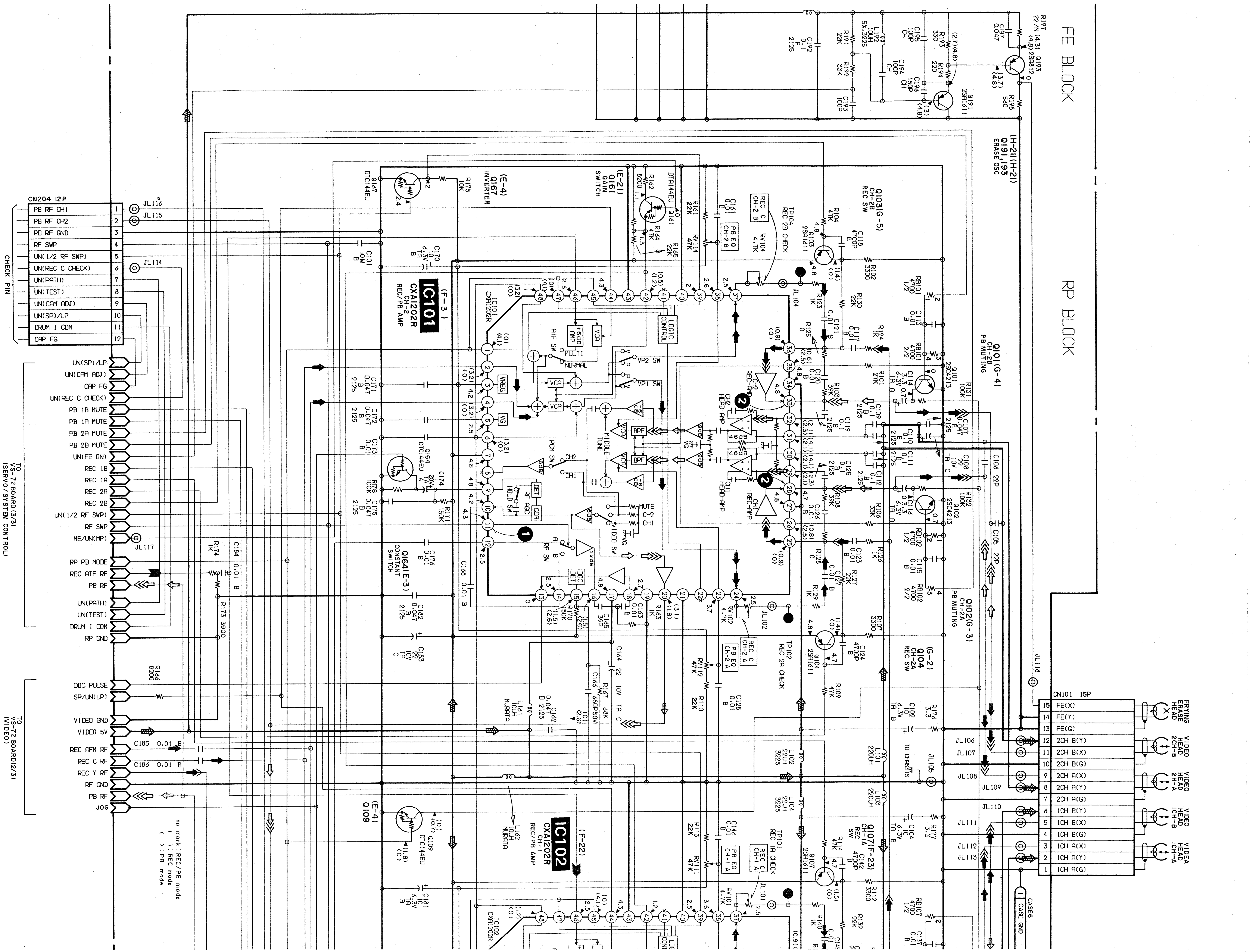

VIDEO
RP
1-636-232-

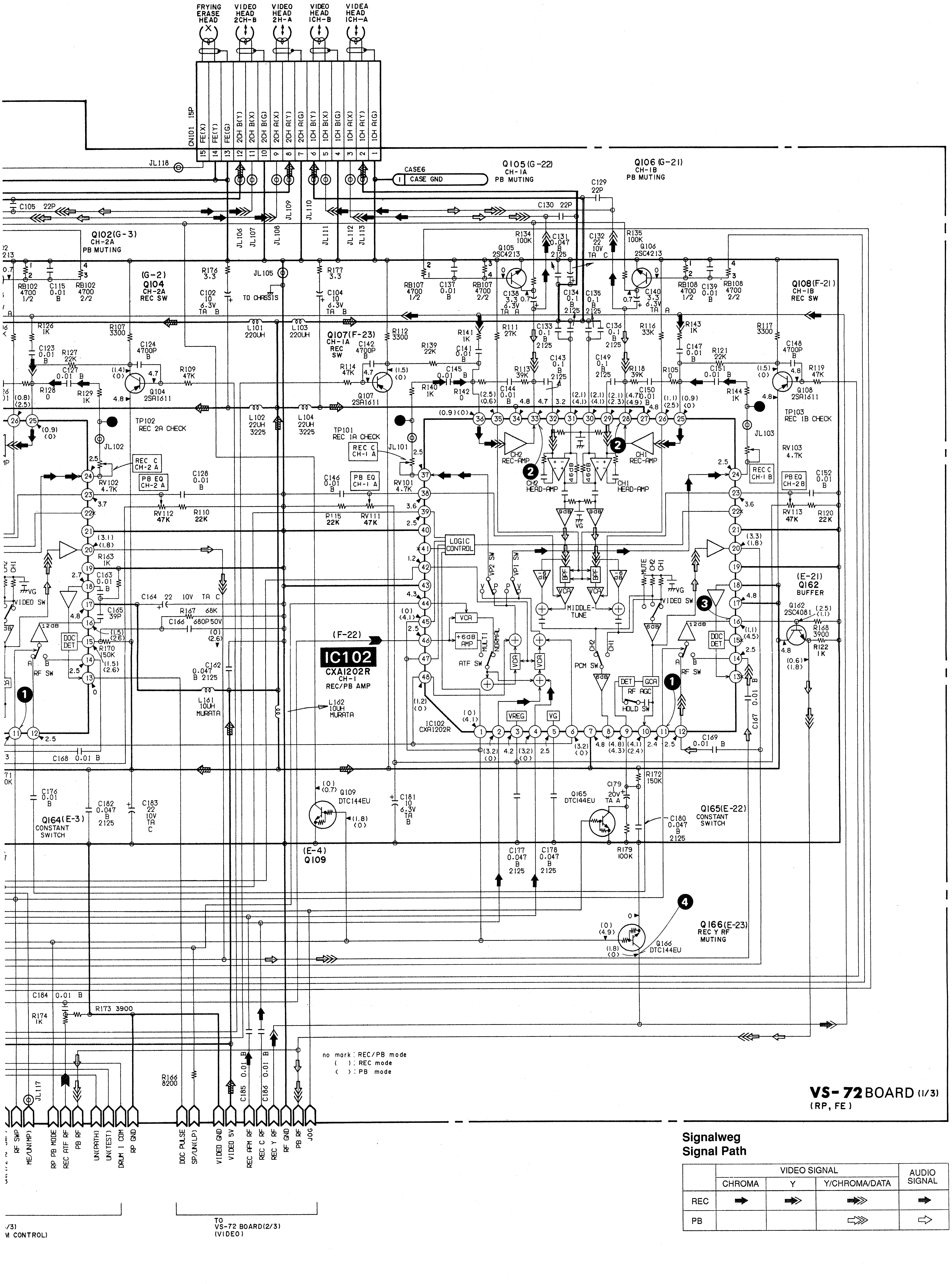
Oszillogramme der VS- 72 Platine
VS- 72 Board Waveforms

VS-72 BOARD




FE BLOCK
RP BLOCK
R197 22/N
Q193 2SA812
C197 0.047
R198 560
(H-21)(H-21) Q191,193 ERASE OSC
Q191 2SA1611
R193 330
R194 220
C195 100P CH
C196 150P CH
C194 100P CH
L192 10UH 5%,3225
R191 22K
R192 33K
C193 100P
L191 220UH MURATA
C192 0.1 F 2125
Q101(G- CH-2B PB MUTING
RB101 4700 1/2
C113 0.01 B
RB101 4700 2/2
Q103(G-5) CH-2B REC SW
R102 3300
C118 4700P B
R104 47K
Q103 2SA1611
R124 1K
R130 22K
C117 0.01 B
C121 0.01 B
R123 1K
R125 0
JL104
TP104 REC 2B CHECK
REC C CH-2 B
RV104 4.7K
C161 0.01 B
PB EQ CH-2 B
R161 22K
RV114 47K
DTA144EU Q161
R165 22K
R164 47K
R162 8200
LOGIC CONTROL
VP2 SW
(E-21) Q161 GAIN SWITCH
VCA
+6dB AMP
MULTI
NORMAL
ATF SW
IC101 CXA1202R
(E-4) Q167 INVERTER
R175 10K
C170 10 6.3V TA B
(F-3) IC101 CXA1202R CH-2 REC/PB AMP
Q167 DTC144EU
C101 10M B
CASE9 CASE GND
CASE10 CASE GND
CASE11 CASE GND
CRSE12 CASE GND
ANA1 ANA LAND
JL116
JL115
JL114
CN204 12P
1 PB RF CH1
2 PB RF CH2
3 PB RF GND
4 RF SWP
5 UN(1/2 RF SWP)
6 UN(REC C CHECK)
7 UN(PATH)
8 UN(TEST)
9 UN(CAM ADJ)
10 UN(SP)/LP
11 DRUM 1 COM
12 CAP FG
CHECK PIN
UN(SP)/LP
UN(CAM ADJ)
09

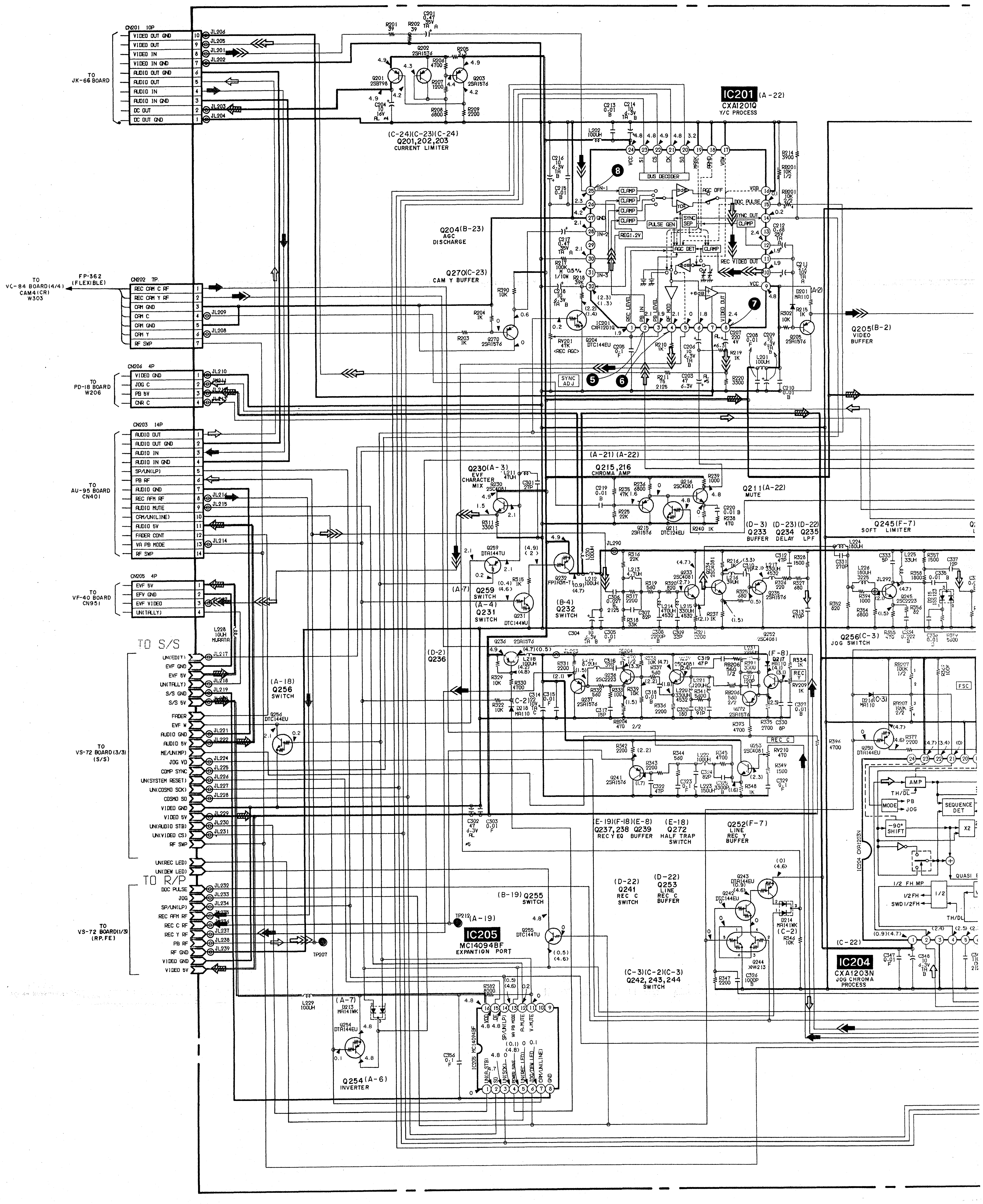

FE BLOCK
RP BLOCK
CN204 12P
PB RF CH1
PB RF CH2
PB RF GND
RF SWP
UN(1/2 RF SWP)
UN(REC C CHECK)
UN(PATH)
UN(TEST)
UN(CAM ADJ)
UN(SP)/LP
DRUM I COM
CAP FG
CHECK PIN
JL116
JL115
JL114
JL117
UN(SP)/LP
UN(CAM ADJ)
CAP FG
UN(REC C CHECK)
PB 1B MUTE
PB 1A MUTE
PB 2A MUTE
PB 2B MUTE
UN(FE ON)
REC 1B
REC 1A
REC 2A
REC 2B
UN(1/2 RF SWP)
RF SWP
ME/UN(MP)
RP PB MODE
REC ATF RF
PB RF
UN(PATH)
UN(TEST)
DRUM I COM
RP GND
TO VS-72 BOARD(3/3) (SERVO/SYSTEM CONTROL)
DOC PULSE
SP/UN(LP)
VIDEO GND
VIDEO 5V
REC AFM RF
REC C RF
REC Y RF
RF GND
PB RF
JOG
TO VS-72 BOARD(2/3) (VIDEO)
C185 0.01 B
C186 0.01 B
R166 8200
R173 3900
R174 1K
C184 0.01 B
IC101 CXA1202R CH-2 REC/PB AMP (F-3)
IC102 CXA1202R CH-1 REC/PB AMP (F-22)
Q167 DTC144EU
(E-4) Q167 INVERTER
Q164 DTC144EU
Q164(E-3) CONSTANT SWITCH
Q109 DTC144EU
(E-4) Q109
(E-21) Q161 GAIN SWITCH
Q161 DTA144EU
Q103(G-5) CH-2B REC SW
Q103 2SA1611
Q101(G-4) CH-2B PB MUTING
Q101 2SC4213
Q102(G-3) CH-2A PB MUTING
Q102 2SC4213
(G-2) Q104 CH-2A REC SW
Q104 2SA1611
Q107(F-23) CH-1A REC SW
Q107 2SA1611
(H-21)(H-21) Q191,193 ERASE OSC
Q191 2SA1611
Q193 2SA812
TP104 REC 2B CHECK
TP102 REC 2A CHECK
TP101 REC 1A CHECK
REC C CH-2 B
PB EQ CH-2 B
REC C CH-2 A
PB EQ CH-2 A
REC C CH-1 A
PB EQ CH-1 A
VCA
+6dB AMP
LOGIC CONTROL
ATF SW
MULTI
NORMAL
VP2 SW
VP1 SW
VREG
VG
MIDDLE-TONE
BPF
46dB
CH2 HEAD-AMP
CH2 REC-AMP
CH1 HEAD-AMP
CH1 REC-AMP
PCH SW
CH2
CH1
DET
RF AGC
HOLD SW
GCA
MUTE
VIDEO SW
RF SW
DOC DET
12dB
6dB
L161 10UH MURATA
L162 10UH MURATA
L101 220UH
L102 22UH 3225
L103 220UH
L104 22UH 3225
TO CHASSIS
JL101
JL102
JL104
JL105
JL106
JL107
JL108
JL109
JL110
JL111
JL112
JL113
JL118
CN101 15P
FE(X)
FE(Y)
FE(G)
2CH B(Y)
2CH B(X)
2CH B(G)
2CH A(X)
2CH A(Y)
2CH A(G)
1CH B(Y)
1CH B(X)
1CH B(G)
1CH A(X)
1CH A(Y)
1CH A(G)
CASE6
CASE GND
FRYING ERASE HEAD
VIDEO HEAD 2CH-B
VIDEO HEAD 2CH-A
VIDEO HEAD 1CH-B
VIDEO HEAD 1CH-A
no mark : REC/PB mode
( ) : REC mode
< > : PB mode

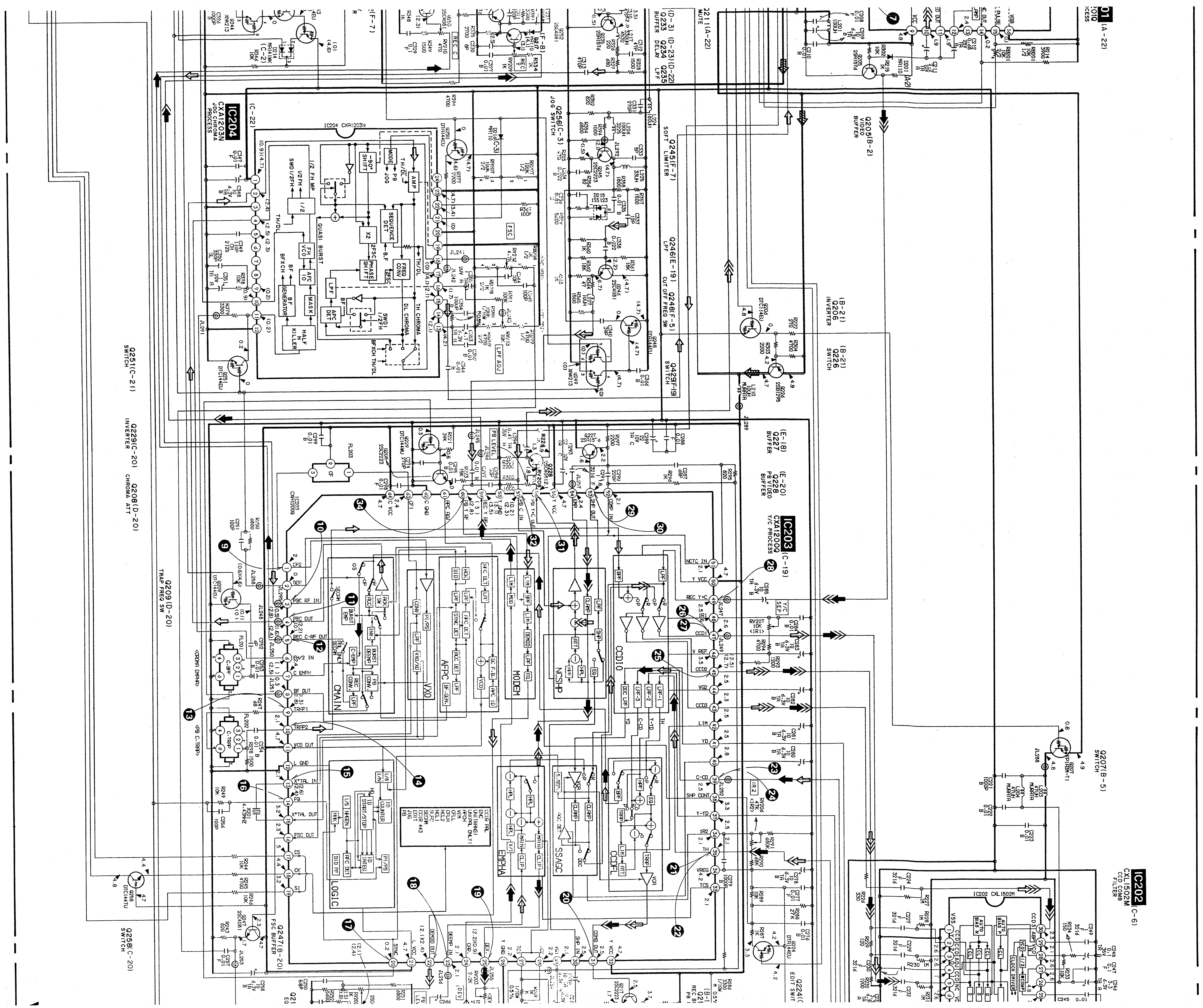

FRYING ERASE HEAD
VIDEO HEAD 2CH-B
VIDEO HEAD 2H-A
VIDEO HEAD 1CH-B
VIDEA HEAD 1CH-A
CN101 15P
15 FE(X)
14 FE(Y)
13 FE(G)
12 2CH B(Y)
11 2CH B(X)
10 2CH B(G)
9 2CH A(X)
8 2CH A(Y)
7 2CH A(G)
6 1CH B(Y)
5 1CH B(X)
4 1CH B(G)
3 1CH A(X)
2 1CH A(Y)
1 1CH A(G)
CASE6
1 CASE GND
Q105(G-22) CH-1A PB MUTING
Q106(G-21) CH-1B PB MUTING
Q102(G-3) CH-2A PB MUTING
(G-2) Q104 CH-2A REC SW
Q107(F-23) CH-1A REC SW
Q108(F-21) CH-1B REC SW
TO CHASSIS
TP102 REC 2A CHECK
TP101 REC 1A CHECK
TP103 REC 1B CHECK
REC C CH-2 A
PB EQ CH-2 A
REC C CH-1 A
PB EQ CH-1 A
REC C CH-1 B
PB EQ CH-2 B
CH2 REC-AMP
CH1 REC-AMP
CH2 HEAD-AMP
CH1 HEAD-AMP
LOGIC CONTROL
MIDDLE-TUNE
BPF
VCA
+6dB AMP
MULTI
NORMAL
ATF SW
VP2 SW
VP1 SW
PCM SW
MUTE
VIDEO SW
RF SW
DOC DET
DET
GCA
RF AGC
HOLD SW
VREG
VG
12dB
(F-22)
IC102
CXA1202R
CH-1
REC/PB AMP
L161 10UH MURATA
L162 10UH MURATA
(E-21) Q162 BUFFER
Q162 2SC4081
Q109 DTC144EU
(E-4) Q109
Q165 DTC144EU
Q165(E-22) CONSTANT SWITCH
Q164(E-3) CONSTANT SWITCH
Q166(E-23) REC Y RF MUTING
Q166 DTC144EU
RF SWP
ME/UN(MP)
RP PB MODE
REC ATF RF
PB RF
UN(PATH)
UN(TEST)
DRUM I COM
RP GND
DOC PULSE
SP/UN(LP)
VIDEO GND
VIDEO 5V
REC AFM RF
REC C RF
REC Y RF
RF GND
PB RF
JOG
TO VS-72 BOARD(2/3) (VIDEO)
/3) M CONTROL)
no mark : REC/PB mode
( ) : REC mode
〈 〉 : PB mode

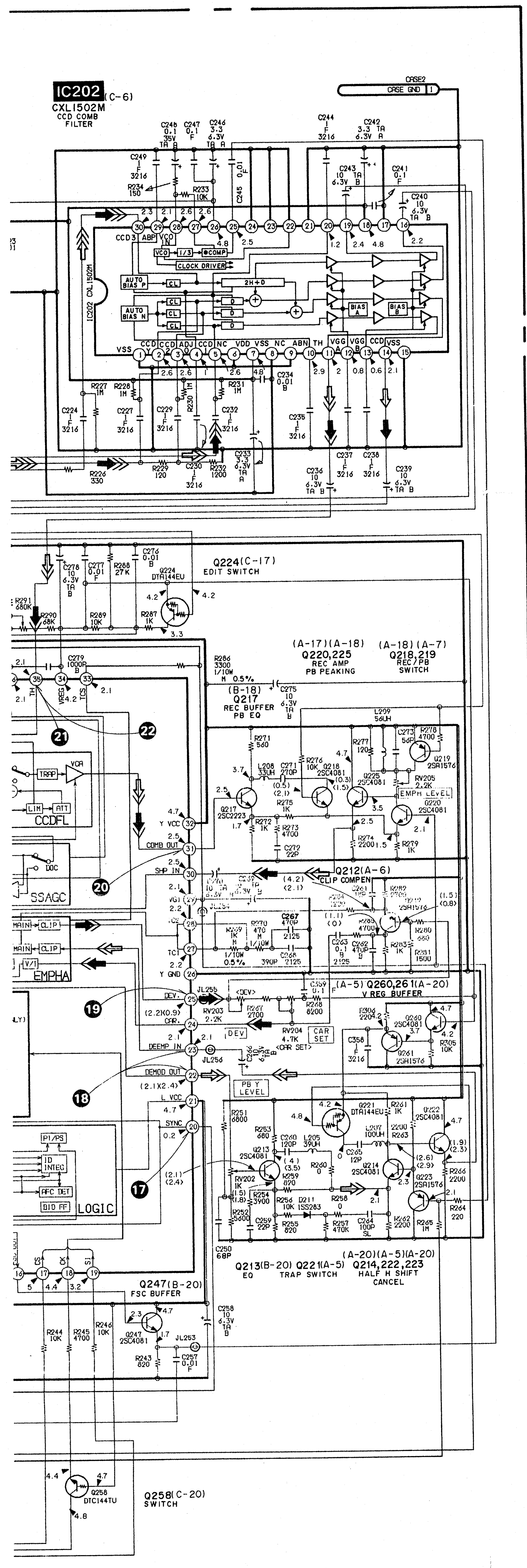
VS-72 BOARD (1/3)
(RP, FE)

Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➾	⋙	➡
PB			⇛	⇨


TO JK-66 BOARD
CN201 10P
VIDEO OUT GND
VIDEO OUT
VIDEO IN
VIDEO IN GND
AUDIO OUT GND
AUDIO OUT
AUDIO IN
AUDIO IN GND
DC OUT
DC OUT GND
TO VC-84 BOARD(4/4) CAM4(CR) W303
FP-362 (FLEXIBLE)
CN202 7P
REC CAM C RF
REC CAM Y RF
CAM GND
CAM C
CAM GND
CAM Y
RF SWP
TO PD-18 BOARD W206
CN206 4P
VIDEO GND
JOG C
PB 5V
CNR C
TO AU-95 BOARD CN401
CN203 14P
AUDIO OUT
AUDIO OUT GND
AUDIO IN
AUDIO IN GND
SP/UN(LP)
PB RF
AUDIO GND
REC AFM RF
AUDIO MUTE
CAM/UN(LINE)
AUDIO 5V
FADER CONT
VA PB MODE
RF SWP
TO VF-40 BOARD CN951
CN205 4P
EVF 5V
EVF GND
EVF VIDEO
UN(TALLY)
TO S/S
TO VS-72 BOARD(3/3) (S/S)
TO R/P
TO VS-72 BOARD(1/3) (RP.FE)
(C-24)(C-23)(C-24) Q201,202,203 CURRENT LIMITER
IC201 (A-22) CXA1201Q Y/C PROCESS
DUS DECODER
CLAMP
PULSE GEN
SYNC SEP
AGC DET
REC VIDEO OUT
VIDEO OUT
SYNC ADJ
Q204(B-23) AGC DISCHARGE
Q270(C-23) CAM Y BUFFER
Q205(B-2) VIDEO BUFFER
Q230(A-3) EVF CHARACTER MIX
(A-21) (A-22) Q215,216 CHROMA AMP
Q211(A-22) MUTE
(D-3) (D-23)(D-22) Q233 Q234 Q235 BUFFER DELAY LPF
Q245(F-7) SOFT LIMITER
Q256(C-3) JOG SWITCH
(A-7) Q259 SWITCH
(A-4) Q231 SWITCH
(B-4) Q232 SWITCH
(D-2) Q236
(A-18) Q256 SWITCH
(E-19)(F-18)(E-8) Q237,238 Q239 REC Y EQ BUFFER
(E-18) Q272 HALF TRAP SWITCH
Q252(F-7) LINE REC Y BUFFER
(D-22) Q241 REC C SWITCH
(D-22) Q253 LINE REC C BUFFER
(C-3)(C-2)(C-3) Q242,243,244 SWITCH
(B-19) Q255 SWITCH
TP212 (A-19)
IC205 MC14094BF EXPANTION PORT
TP207
(A-7)
Q254(A-6) INVERTER
IC204 (C-22) CXA1203N JOG CHROMA PROCESS
AMP
SEQUENCE DET
MODE
-90° SHIFT
1/2 FH MP
09


IC204 CXA1203N JOG CHROMA PROCESS (C-22)
IC203 CXA1200Q Y/C PROCESS (C-19)
IC202 CXL1502M CCD COMB FILTER (C-6)
Q251(C-21) SWITCH
Q229(C-20) INVERTER
Q208(D-20) CHROMA ATT
Q209(D-20) TRAP FREQ SW
Q258(C-20) SWITCH
Q247(B-20) FSC BUFFER
Q256(C-3) JOG SWITCH
Q245(F-7) SOFT LIMITER
Q246(E-19) LPF
Q248(F-5) CUT OFF FREQ SW
Q429(F-19) SWITCH
Q227 (E-18) BUFFER
Q228 (E-20) PB VIDEO BUFFER
Q205(B-2) VIDEO BUFFER
Q206 (B-21) INVERTER
Q226 (B-21) SWITCH
Q207(B-5) SWITCH
Q233 (D-3) Q234 (D-23) Q235 (D-22) BUFFER DELAY LPF
Q211 (A-22) MUTE
Q224(C-20) EDIT SWITCH
CHAIN
AFPC
VXO
MODEM
NCSHP
CCD10
EMPHA
SSAGC
CCDFL
LOGIC
FSC
LPF ADJ
PB LEVEL

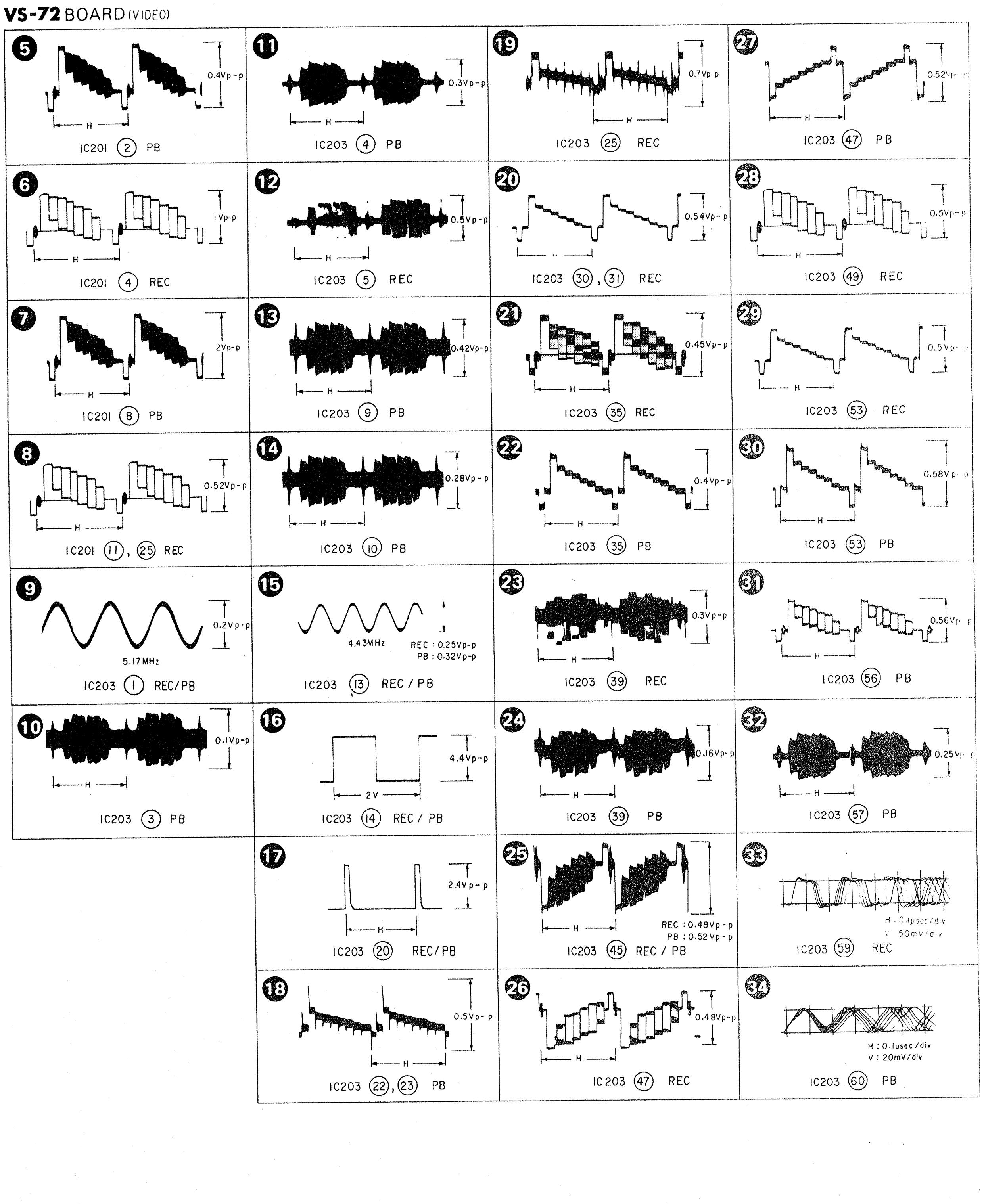

IC202 (C-6)
CXL1502M
CCD COMB FILTER
IC202 CXL1502M
AUTO BIAS P
AUTO BIAS N
CLOCK DRIVER
VCO
1/3
BCOMP
2H+D
BIAS A
BIAS B
CASE2
CASE GND
Q224(C-17)
EDIT SWITCH
DTA144EU
(A-17)(A-18)
Q220,225
REC AMP
PB PEAKING
(A-18)(A-7)
Q218,219
REC/PB
SWITCH
(B-18)
Q217
REC BUFFER
PB EQ
EMPH LEVEL
Q212(A-6)
CLIP COMPEN
(A-5) Q260,261(A-20)
V REG BUFFER
CAR SET
PB Y LEVEL
DEV
Q213(B-20) Q221(A-5) Q214,222,223
EQ
TRAP SWITCH
(A-20)(A-5)(A-20)
HALF H SHIFT CANCEL
Q247(B-20)
FSC BUFFER
Q258(C-20)
SWITCH
DTC144TU
Y VCC
COMB OUT
SHP IN
Y GND
DEEMP IN
DEMOD OUT
L VCC
SYNC
TRAP
VCA
LIM
ATT
CCDFL
DOC
SSAGC
MAIN
CLIP
EMPHA
LOGIC
P1/PS
ID INTEG
AFC DET
BID FF
17
18
19
20
21
22

no mark : REC/PB mode
( ) : REC mode
< > : PB mode

VS-72 BOARD (2/3) (VIDEO)

Oszillogramme der VS- 72 Platine
VS- 72 Board Waveforms

VS-72 BOARD (VIDEO)

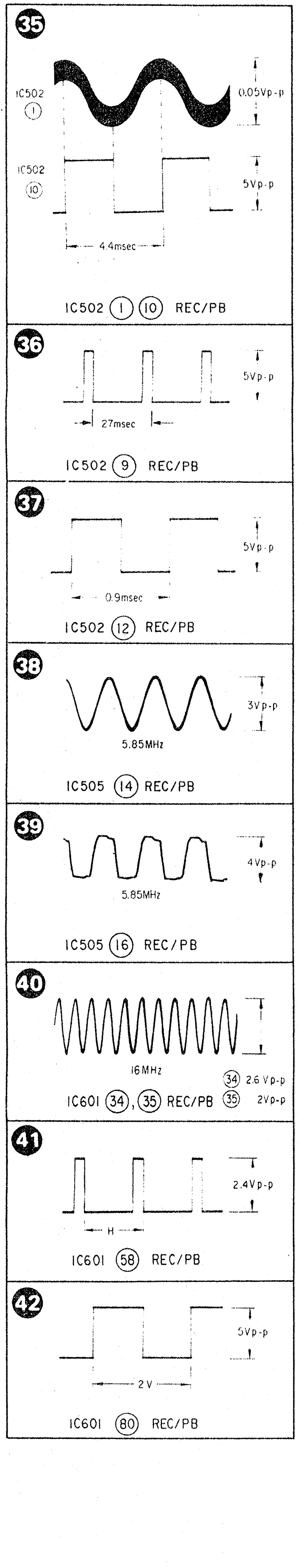


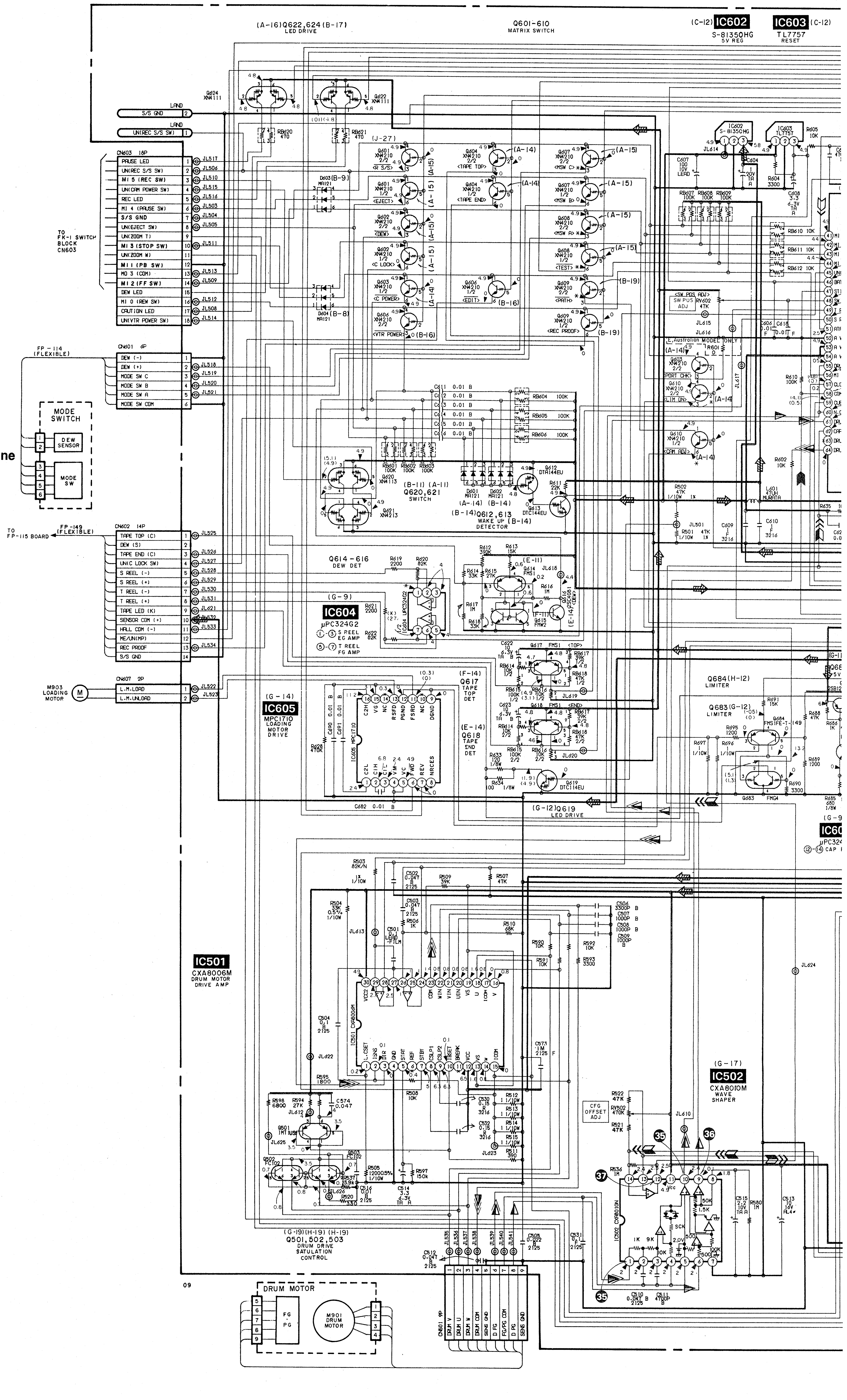
Signalweg
Signal Path

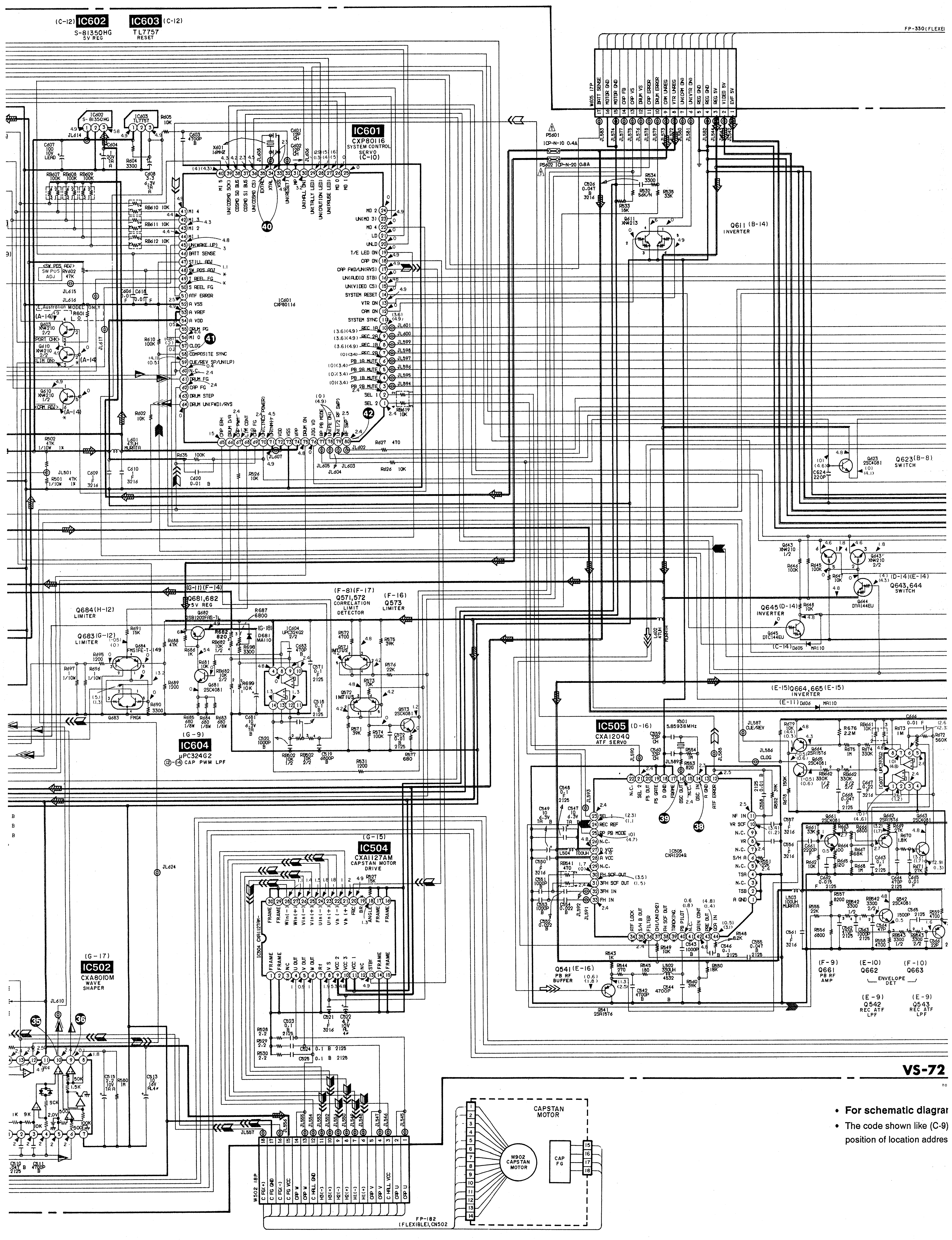
	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➡➡	➡➡➡	➡
PB	⇨	⇨⇨	⇨⇨⇨	⇨

Oszillogramme der VS- 72 Platine
VS- 72 Board Waveforms

VS-72 BOARD (SYSCON/SERVO)

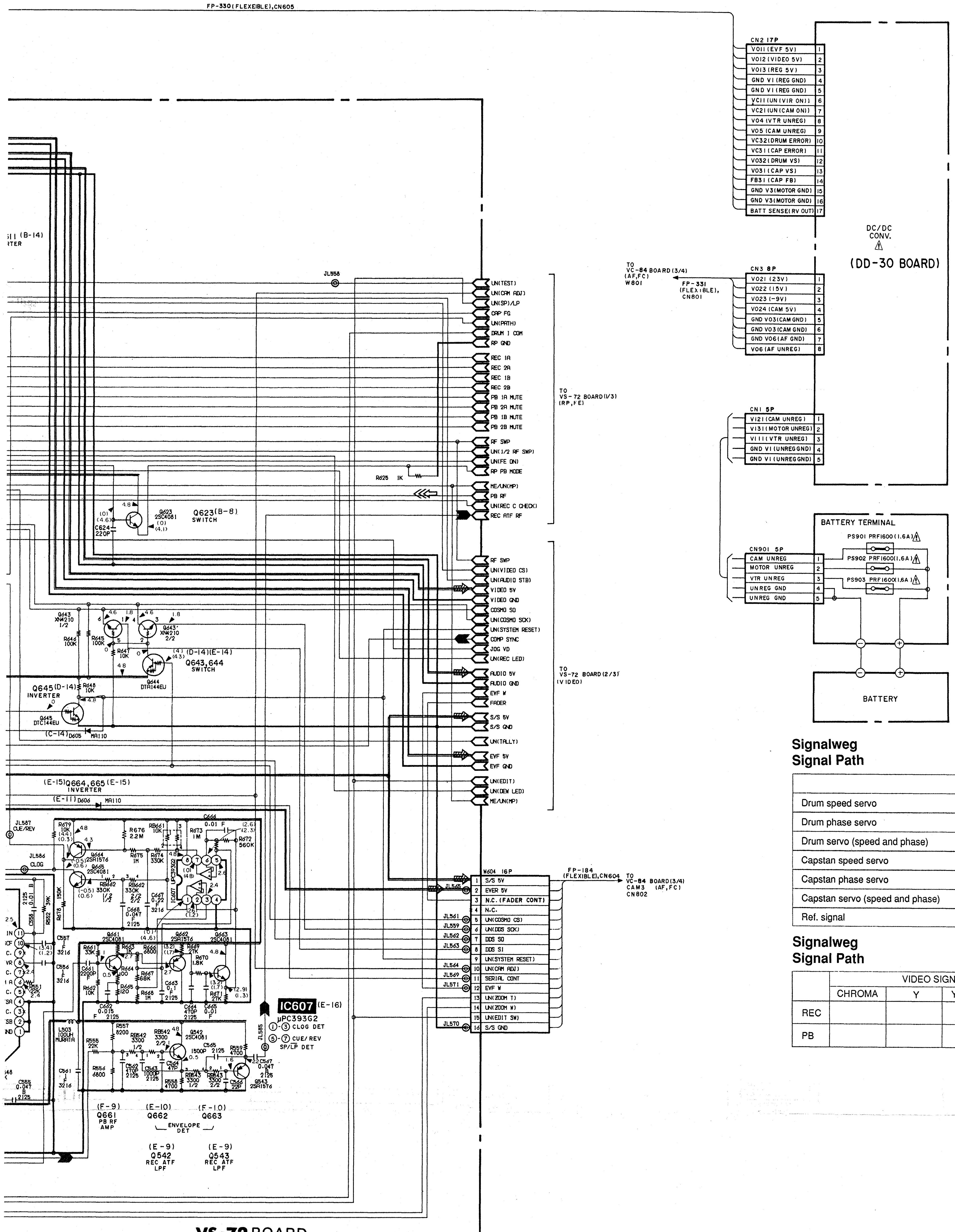



(A-16)Q622,624(B-17)
LED DRIVE
Q601-610
MATRIX SWITCH
(C-12) IC602
S-81350HG
5V REG
IC603 (C-12)
TL7757
RESET
TO FK-1 SWITCH BLOCK CN603
CN603 18P
PAUSE LED
UN(REC S/S SW)
MI 5 (REC SW)
UN(CAM POWER SW)
REC LED
MI 4 (PAUSE SW)
S/S GND
UN(EJECT SW)
UN(ZOOM T)
MI 3 (STOP SW)
UN(ZOOM W)
MI 1 (PB SW)
MO 3 (COM)
MI 2 (FF SW)
DEW LED
MI 0 (REW SW)
CAUTION LED
UN(VTR POWER SW)
FP-114 (FLEXIBLE)
CN601 6P
DEW (-)
DEW (+)
MODE SW C
MODE SW B
MODE SW A
MODE SW COM
MODE SWITCH
DEW SENSOR
MODE SW
TO FP-115 BOARD
FP-149 (FLEXIBLE)
CN602 14P
TAPE TOP (C)
DEW (S)
TAPE END (C)
UN(C LOCK SW)
S REEL (-)
S REEL (+)
T REEL (-)
T REEL (+)
TAPE LED (K)
SENSOR COM (+)
HALL COM (-)
ME/UN(MP)
REC PROOF
S/S GND
M903 LOADING MOTOR
CN607 2P
L.M.LOAD
L.M.UNLOAD
Q614-616
DEW DET
(G-9)
IC604
μPC324G2
①-③ S REEL EG AMP
⑤-⑦ T REEL FG AMP
(B-11) (A-11)
Q620,621
SWITCH
(B-14)Q612,613
WAKE UP (B-14)
DETECTOR
(G-14)
IC605
MPC1710
LOADING MOTOR DRIVE
(F-14)
Q617
TAPE TOP DET
(E-14)
Q618
TAPE END DET
(G-12)Q619
LED DRIVE
Q684(H-12)
LIMITER
Q683(G-12)
LIMITER
IC501
CXA8006M
DRUM MOTOR DRIVE AMP
(G-17)
IC502
CXA8010M
WAVE SHAPER
CFG OFFSET ADJ
(G-19)(H-19)(H-19)
Q501,502,503
DRUM DRIVE SATULATION CONTROL
DRUM MOTOR
FG
PG
M901 DRUM MOTOR
CN501 9P
DRUM V
DRUM U
DRUM W
DRUM COM
SENS GND
D FG
FG/PG COM
D PG
SENS GND
09


(C-12) IC602 S-81350HG 5V REG
IC603 (C-12) TL7757 RESET
IC601 CXP80116 SYSTEM CONTROL SERVO (C-10)
FP-330(FLEXEI
W605 17P
BATT SENSE
MOTOR GND
MOTOR GND
CAP FB
CAP VS
DRUM VS
CAP ERROR
DRUM ERROR
CAM UNREG
VTR UNREG
UN(CAM ON)
UN(VTR ON)
REG GND
REG GND
REG 5V
VIDEO 5V
EVF 5V
PS601 ICP-N-10 0.4A
PS602 ICP-N-20 0.8A
Q611 (B-14) INVERTER
Q623 (B-8) SWITCH
Q643,644 (D-14)(E-14) SWITCH
Q645 (D-14) INVERTER
(E-15) Q664,665 (E-15) INVERTER
Q684 (H-12) LIMITER
Q683 (G-12) LIMITER
(G-11)(F-14) Q681,682 5V REG
(F-8)(F-17) Q571,572 CORRELATION LIMIT DETECTOR
(F-16) Q573 LIMITER
IC604 (G-9) µPC324G2 (12)-(14) CAP PWM LPF
IC505 (D-16) CXA1204Q ATF SERVO
IC504 (G-15) CXA1127AM CAPSTAN MOTOR DRIVE
IC502 (G-17) CXA8010M WAVE SHAPER
Q541 (E-16) PB RF BUFFER
(F-9) Q661 PB RF AMP
(E-10) Q662
(F-10) Q663
ENVELOPE DET
(E-9) Q542 REC ATF LPF
(E-9) Q543 REC ATF LPF
W502 18P
FP-182 (FLEXIBLE),CN502
CAPSTAN MOTOR
M902 CAPSTAN MOTOR
CAP FG
X601 16MHz
X501 5.85938MHz
35
36
38
39
40
41
42

VS-72

- **For schematic diagrar**
- The code shown like (C-9)
position of location addres


FP-330(FLEXIBLE),CN605
Q645(D-14)
INVERTER
Q645
DTC144EU
(C-14) D605 MA110
Q643,644 SWITCH
(D-14)(E-14)
Q643 XN4210 1/2
Q643' XN4210 2/2
Q644 DTA144EU
R646 100K
R645 100K
R647 10K
R648 10K
Q623(B-8) SWITCH
Q623 2SC4081
C624 220P
R625 1K
JL558
(E-15) Q664,665 (E-15)
INVERTER
(E-11) D606 MA110
JL587 CUE/REV
JL586 CLOG
R679 10K
Q664 2SA1576
Q665 2SC4081
R676 2.2M
R675 1M
R674 330K
RB661 10K
R673 1M
C666 0.01 F
R672 560K
RB662 330K 1/2
RB662 330K 2/2
C667 0.22 F 3216
C668 0.047 F 2125
IC607 UPC393G2
R678 150K
C558 0.01 B 2125
R552 39K
C557 F 3216
C556 F 3216
R551 22K
Q661 2SC4081
Q662 2SA1576
Q663 2SC4081
R661 33K
C661 2200P F
R662 10K
R663 1K
R664 100
R665 120
R666 6800
R667 68K
R668 1M
R669 27K
R670 1.8K
R671 27K
C662 0.015 F 2125
C663 0.1 F 2125
C664 470P 2125
C665 0.01 F
L503 100UH MURATA
R555 22K
R556 6800
R557 8200
RB542 3300 1/2
RB542 3300 2/2
RB543 3300 1/2
RB543 3300 2/2
R558 4700
R559 4700
C561 F 3216
C562 470P 2125
C563 1000P 2125
C564 47P
C565 1500P 2125
C566 22P
C567 0.047 B 2125
C555 0.047 B 2125
Q542 2SC4081
Q543 2SA1576
JL585
IC607 (E-16)
μPC393G2
①-③ CLOG DET
⑤-⑦ CUE/REV SP/LP DET
(F-9) Q661 PB RF AMP
(E-10) Q662
(F-10) Q663
ENVELOPE DET
(E-9) Q542 REC ATF LPF
(E-9) Q543 REC ATF LPF
UN(TEST)
UN(CAM ADJ)
UN(SP)/LP
CAP FG
UN(PATH)
DRUM 1 COM
RP GND
REC 1A
REC 2A
REC 1B
REC 2B
PB 1A MUTE
PB 2A MUTE
PB 1B MUTE
PB 2B MUTE
RF SWP
UN(1/2 RF SWP)
UN(FE ON)
RP PB MODE
ME/UN(MP)
PB RF
UN(REC C CHECK)
REC ATF RF
TO VS-72 BOARD(1/3) (RP,FE)
RF SWP
UN(VIDEO CS)
UN(AUDIO STB)
VIDEO 5V
VIDEO GND
COSMO SO
UN(COSMO SCK)
UN(SYSTEM RESET)
COMP SYNC
JOG VD
UN(REC LED)
AUDIO 5V
AUDIO GND
EVF W
FADER
S/S 5V
S/S GND
UN(TALLY)
EVF 5V
EVF GND
UN(EDIT)
UN(DEW LED)
ME/UN(MP)
TO VS-72 BOARD(2/3) (VIDEO)
W604 16P
1 S/S 5V
2 EVER 5V
3 N.C. (FADER CONT)
4 N.C.
5 UN(COSMO CS)
6 UN(DDS SCK)
7 DDS SO
8 DDS SI
9 UN(SYSTEM RESET)
10 UN(CAM ADJ)
11 SERIAL CONT
12 EVF W
13 UN(ZOOM T)
14 UN(ZOOM W)
15 UN(EDIT SW)
16 S/S GND
JL565
JL561
JL559
JL562
JL563
JL564
JL569
JL571
JL570
FP-184 (FLEXIBLE),CN604
TO VC-84 BOARD(3/4) CAM3 (AF,FC) CN802
TO VC-84 BOARD(3/4) (AF,FC) W801
FP-331 (FLEXIBLE), CN801
CN2 17P
1 VO11 (EVF 5V)
2 VO12 (VIDEO 5V)
3 VO13 (REG 5V)
4 GND V1 (REG GND)
5 GND V1 (REG GND)
6 VC11 (UN (VIR ON))
7 VC21 (UN (CAM ON))
8 VO4 (VTR UNREG)
9 VO5 (CAM UNREG)
10 VC32 (DRUM ERROR)
11 VC31 (CAP ERROR)
12 VO32 (DRUM VS)
13 VO31 (CAP VS)
14 FB31 (CAP FB)
15 GND V3 (MOTOR GND)
16 GND V3 (MOTOR GND)
17 BATT SENSE (RV OUT)
DC/DC CONV. ⚠
(DD-30 BOARD)
CN3 8P
1 VO21 (23V)
2 VO22 (15V)
3 VO23 (-9V)
4 VO24 (CAM 5V)
5 GND VO3 (CAM GND)
6 GND VO3 (CAM GND)
7 GND VO6 (AF GND)
8 VO6 (AF UNREG)
CN1 5P
1 V121 (CAM UNREG)
2 V131 (MOTOR UNREG)
3 V111 (VTR UNREG)
4 GND V1 (UNREG GND)
5 GND V1 (UNREG GND)
BATTERY TERMINAL
PS901 PRF1600 (1.6A) ⚠
PS902 PRF1600 (1.6A) ⚠
PS903 PRF1600 (1.6A) ⚠
CN901 5P
1 CAM UNREG
2 MOTOR UNREG
3 VTR UNREG
4 UNREG GND
5 UNREG GND
BATTERY

VS-72 BOARD (3/3) SERVO SYSTEM CONTROL

no mark : REC/PB mode
( ) : REC mode
( ) : PB mode
* : can not be measured

- **For schematic diagrams.**
- The code shown like (C-9) for each semiconductor indicates the position of location address on the printed wiring board.

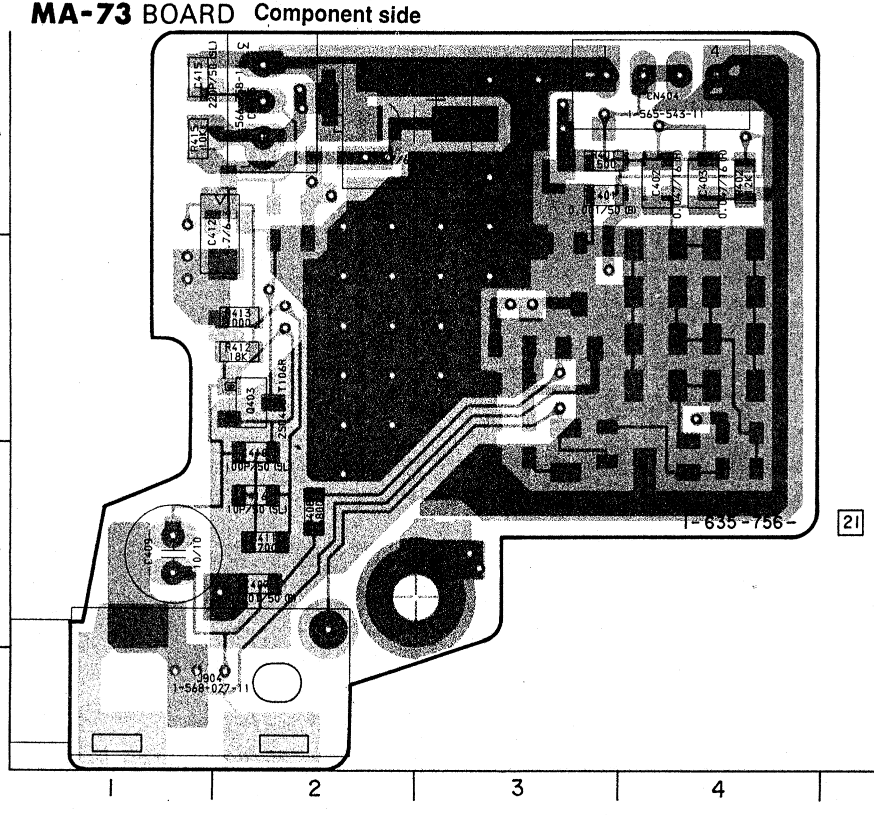
Signalweg
Signal Path

	REC	REC/PB	PB
Drum speed servo		▷	
Drum phase servo		▷>	
Drum servo (speed and phase)		▷>>	
Capstan speed servo			
Capstan phase servo			⟩⟩
Capstan servo (speed and phase)		▶⟩	
Ref. signal	►		

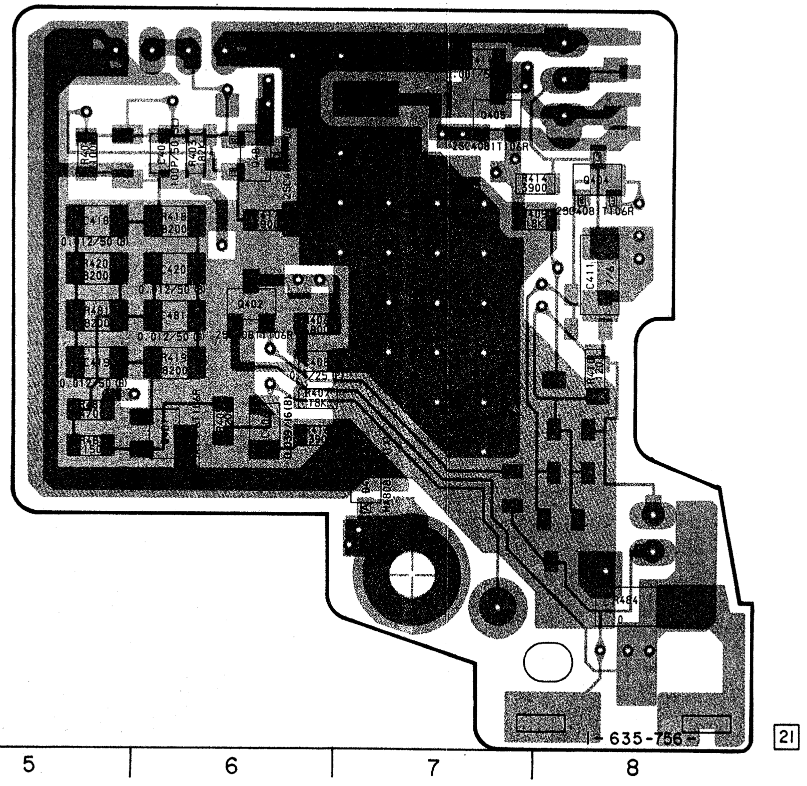
Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC				
PB			⇨>>	

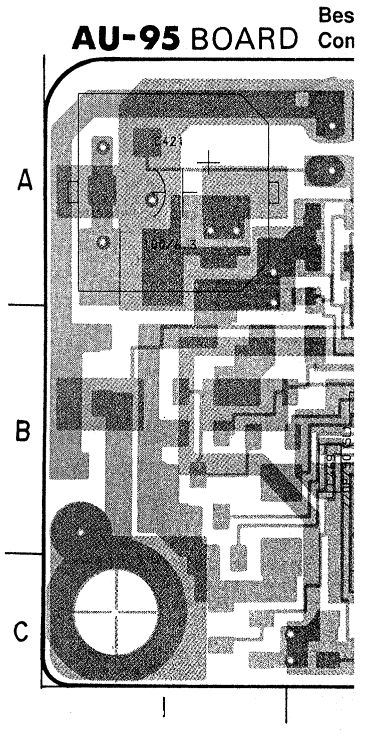
MA-73 BOARD Bestückungsseite Component side


A
B
C
D
1
2
3
4
1-635-756-
21

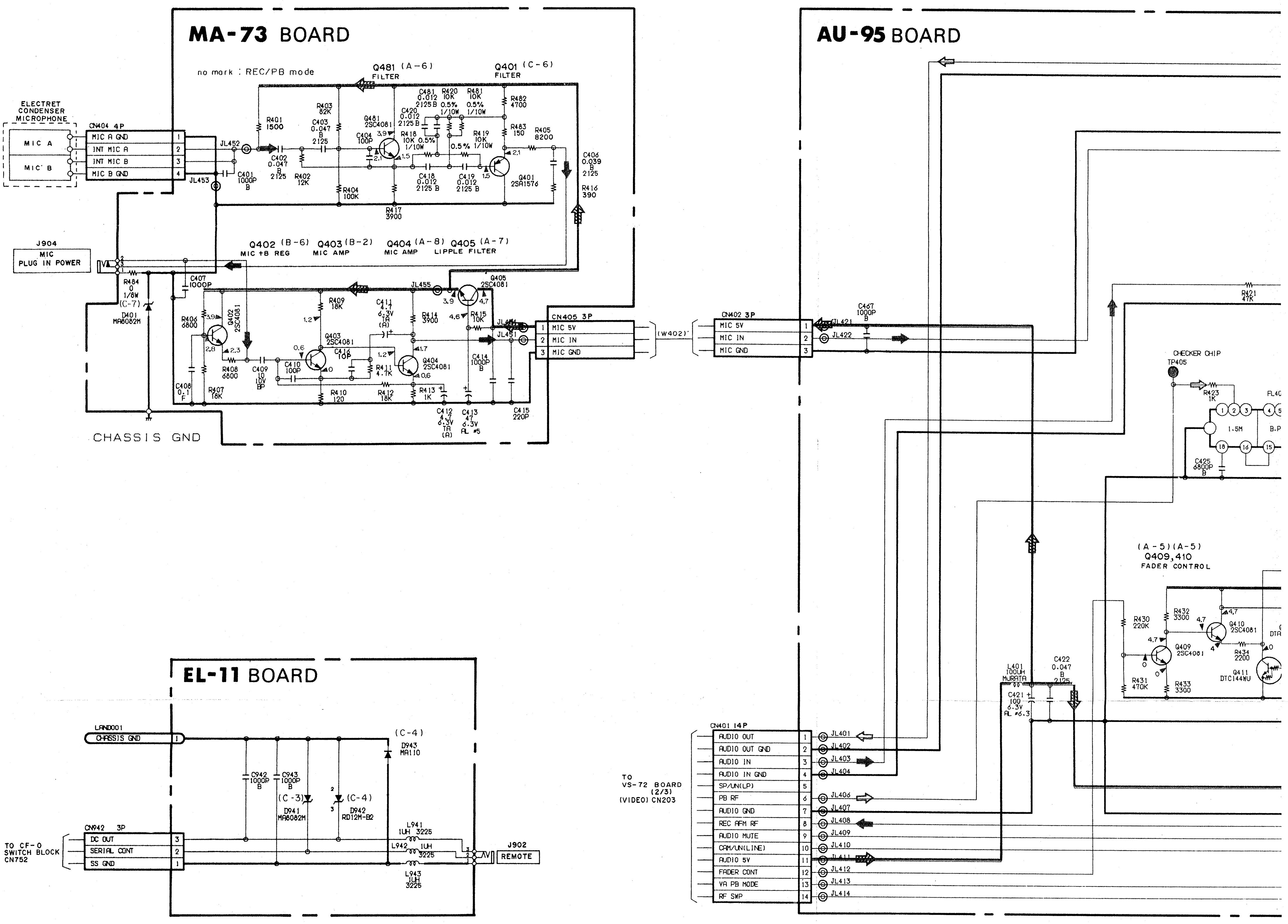
MA-73 BOARD Lötseite Conductor side


5
6
7
8
635-756-
21

AU-95 BOARD Bes Con

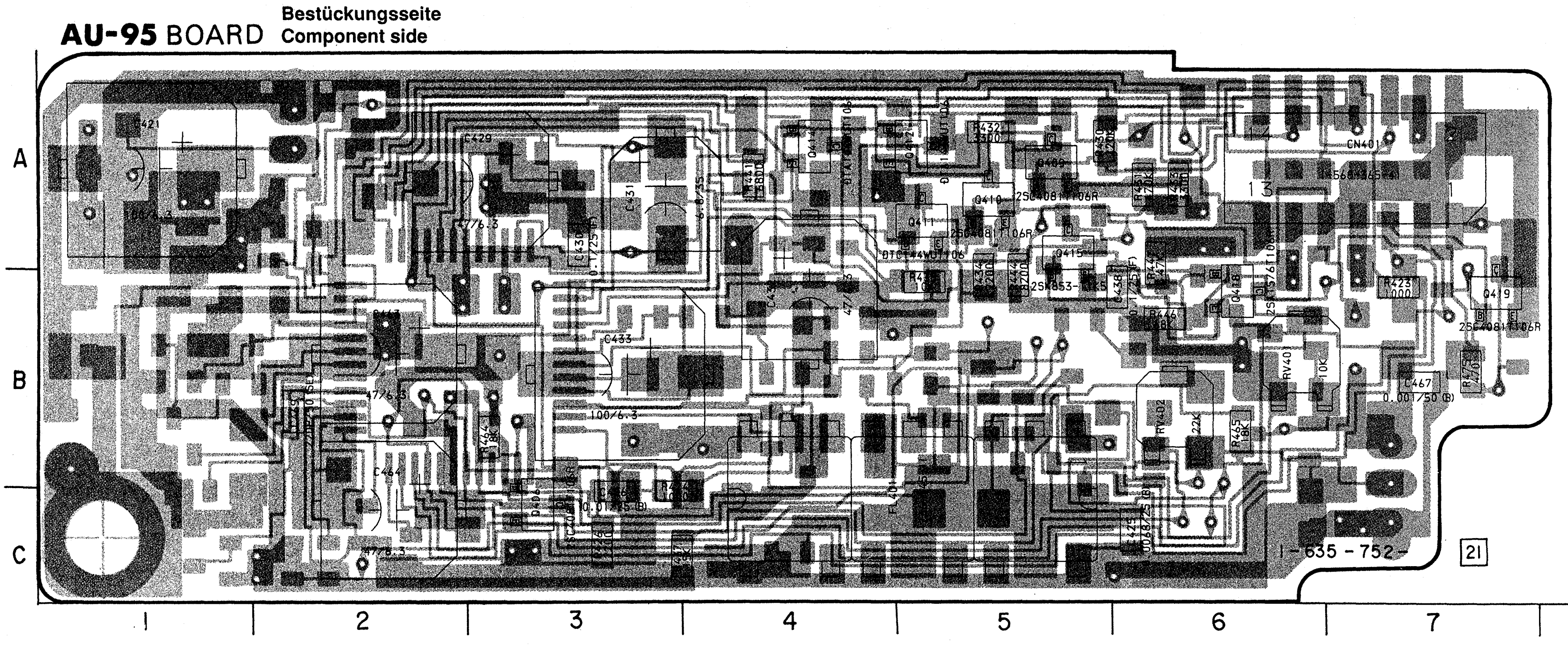


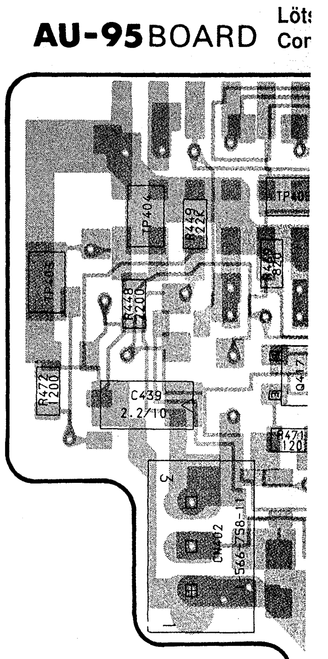
AU- 95 (Audio), MA- 73 (Mikr.-Verstärker), EL- 11 (Remote Buchse) Schaltbild
AU- 95 (Audio), MA- 73 (Mic Amp), EL- 11 (Remote Jack) Schematic Diagram

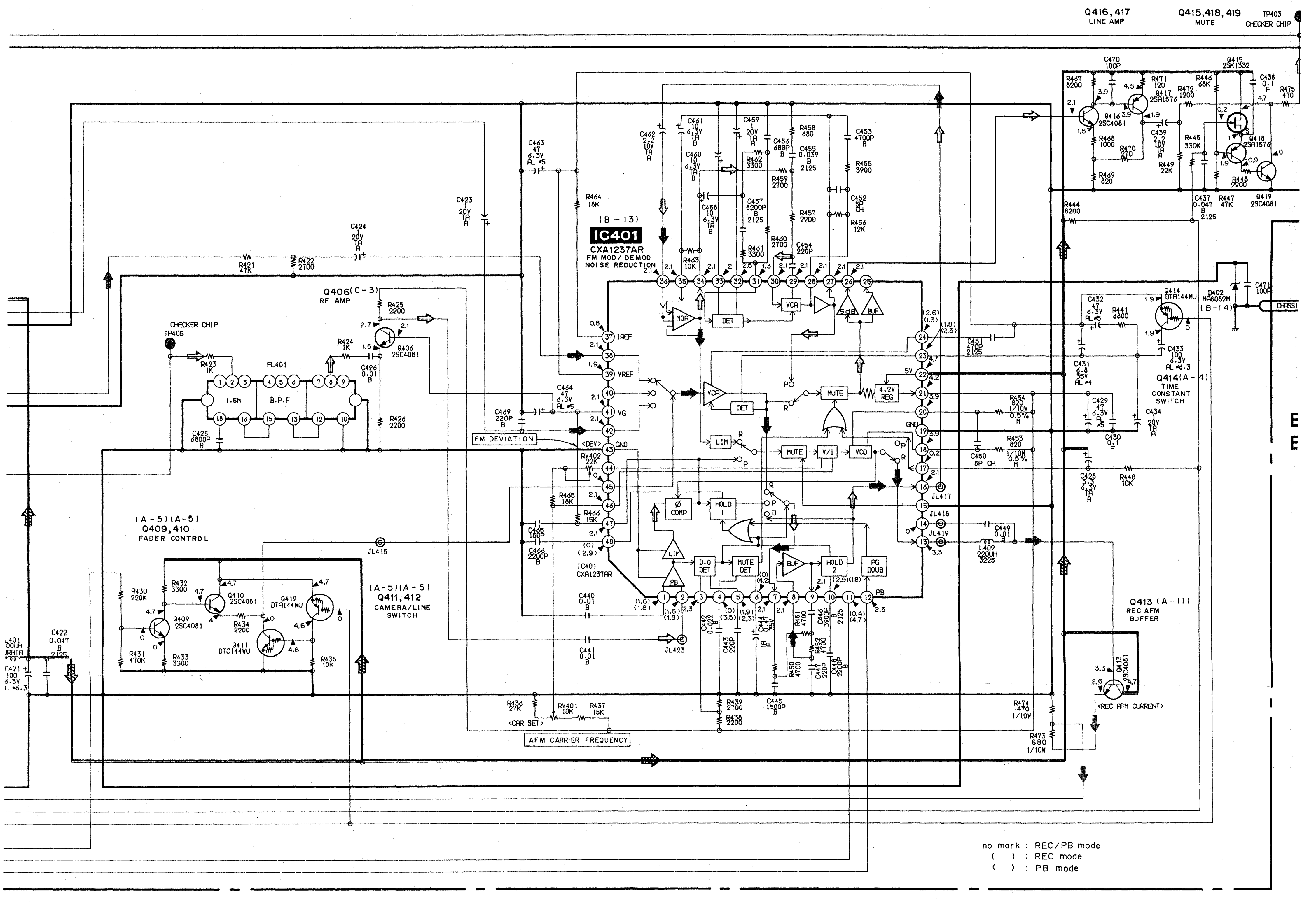

MA-73 BOARD
no mark : REC/PB mode
Q481 (A-6) FILTER
Q401 (C-6) FILTER
ELECTRET CONDENSER MICROPHONE
MIC A
MIC B
CN404 4P
MIC A GND
INT MIC A
INT MIC B
MIC B GND
J904 MIC PLUG IN POWER
Q402 (B-6) MIC +B REG
Q403 (B-2) MIC AMP
Q404 (A-8) MIC AMP
Q405 (A-7) LIPPLE FILTER
CN405 3P
MIC 5V
MIC IN
MIC GND
(W402)
CHASSIS GND
AU-95 BOARD
CN402 3P
MIC 5V
MIC IN
MIC GND
CHECKER CHIP TP405
(A-5)(A-5) Q409,410 FADER CONTROL
TO VS-72 BOARD (2/3) (VIDEO) CN203
CN401 14P
AUDIO OUT
AUDIO OUT GND
AUDIO IN
AUDIO IN GND
SP/LN(LP)
PB RF
AUDIO GND
REC AFM RF
AUDIO MUTE
CAM/LN(LINE)
AUDIO 5V
FADER CONT
VA PB MODE
RF SWP
EL-11 BOARD
LAND001 CHASSIS GND
TO CF-0 SWITCH BLOCK CN752
CN942 3P
DC OUT
SERIAL CONT
SS GND
D943 MA110
D941 MA8082M
D942 RD12M-B2
L941 1UH 3225
L942 1UH 3225
L943 1UH 3225
J902 REMOTE
09

Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC				➡
PB				⇨


AU-95 BOARD
Bestückungsseite
Component side
A
B
C
1
2
3
4
5
6
7
8
1-635-752-
21
C421
C429
C431
C433
C467
0.001/50 (B)
R423
1000
Q419
Q409
Q410
Q411
Q415
Q418
CN401
RV401
RV402
R465
18K
FL401

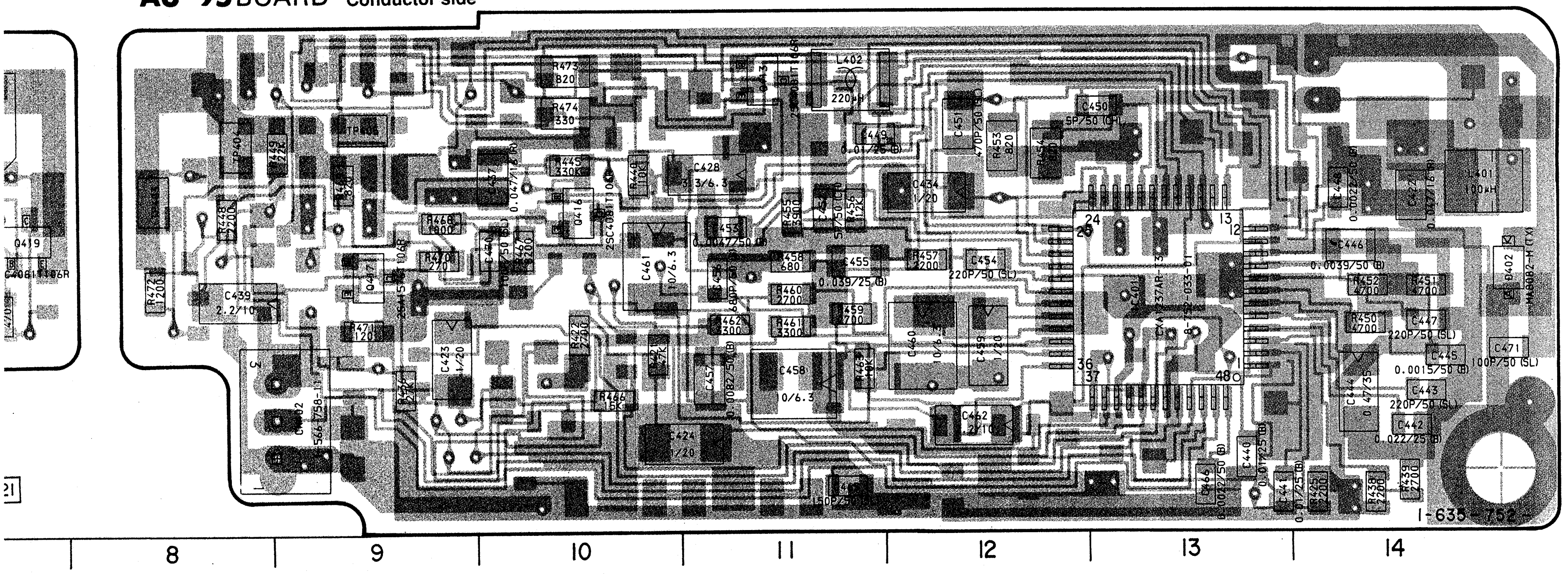

AU-95 BOARD
Löt
Co
TP404
TP403
C439
2.2/10
R449
22K
R448
2200
R472
1200
CN402


Q416,417
LINE AMP
Q415,418,419
MUTE
TP403
CHECKER CHIP
IC401
(B-13)
CXA1237AR
FM MOD/DEMOD
NOISE REDUCTION
IREF
VREF
VG
<DEV>
GND
MOA
DET
VCA
5dB
BUF
MUTE
4.2V
REG
LIM
V/I
VCO
COMP
HOLD 1
HOLD 2
D.O DET
MUTE DET
PB
PG DOUB
5V
FM DEVIATION
AFM CARRIER FREQUENCY
<CAR SET>
Q406 (C-3)
RF AMP
CHECKER CHIP
TP405
FL401
B.P.F
1.5M
(A-5)(A-5)
Q409,410
FADER CONTROL
(A-5)(A-5)
Q411,412
CAMERA/LINE SWITCH
Q413 (A-11)
REC AFM BUFFER
<REC AFM CURRENT>
Q414 (A-4)
TIME CONSTANT SWITCH
D402
MA8082M
(B-14)
CHASSIS
JL415
JL417
JL418
JL419
JL423
L402
220UH
3225
RV401
10K
RV402
22K
2SC4081
2SA1576
2SK1332
DTA144WU
DTC144WU

no mark : REC/PB mode
( ) : REC mode
( ) : PB mode

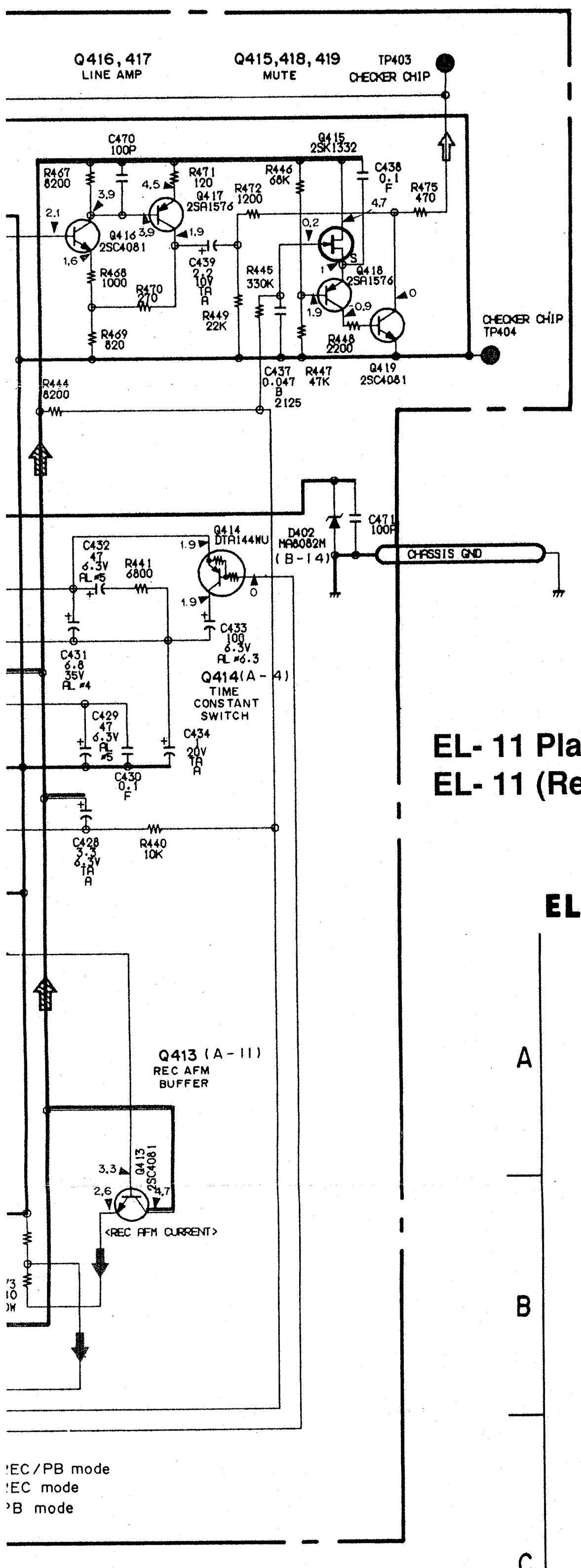
HROMA/DATA	AUDIO SIGNAL
	➡
	⇨

AU-95 BOARD Lötseite
Conductor side

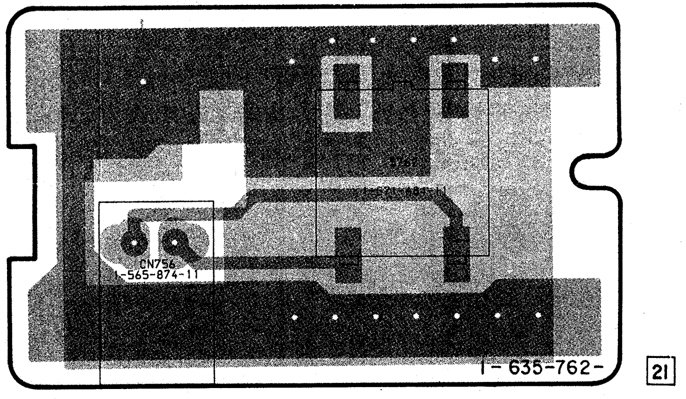

R473 820
R474 330
L402 220μH
C439 2.2/10
C628 3.3/6.3
C461 10/6.3
C423 4/20
C424 4/20
C455 0.039/25
C454 220P/50
IC401 CXA1337AR-T3
24
25
13
12
36
37
48
C446
C447 220P/50
C445
C471 100P/50
C443 220P/50
C442 0.022/25
L401 100μH
D402 MA8082-H(TX)
CN402
1-635-752-
21
8
9
10
11
12
13
14

FP- 115 Platine (Band-Anfang-/Ende-Sensor, Bandumschaltung)
FP- 115 (Tape Top/End Sensor, Tape Select) Printed Wiring Board

SW- 161 Platine (Gegenlicht-Taste)
SW- 161 (Back Light Switch) Printed Wiring Board

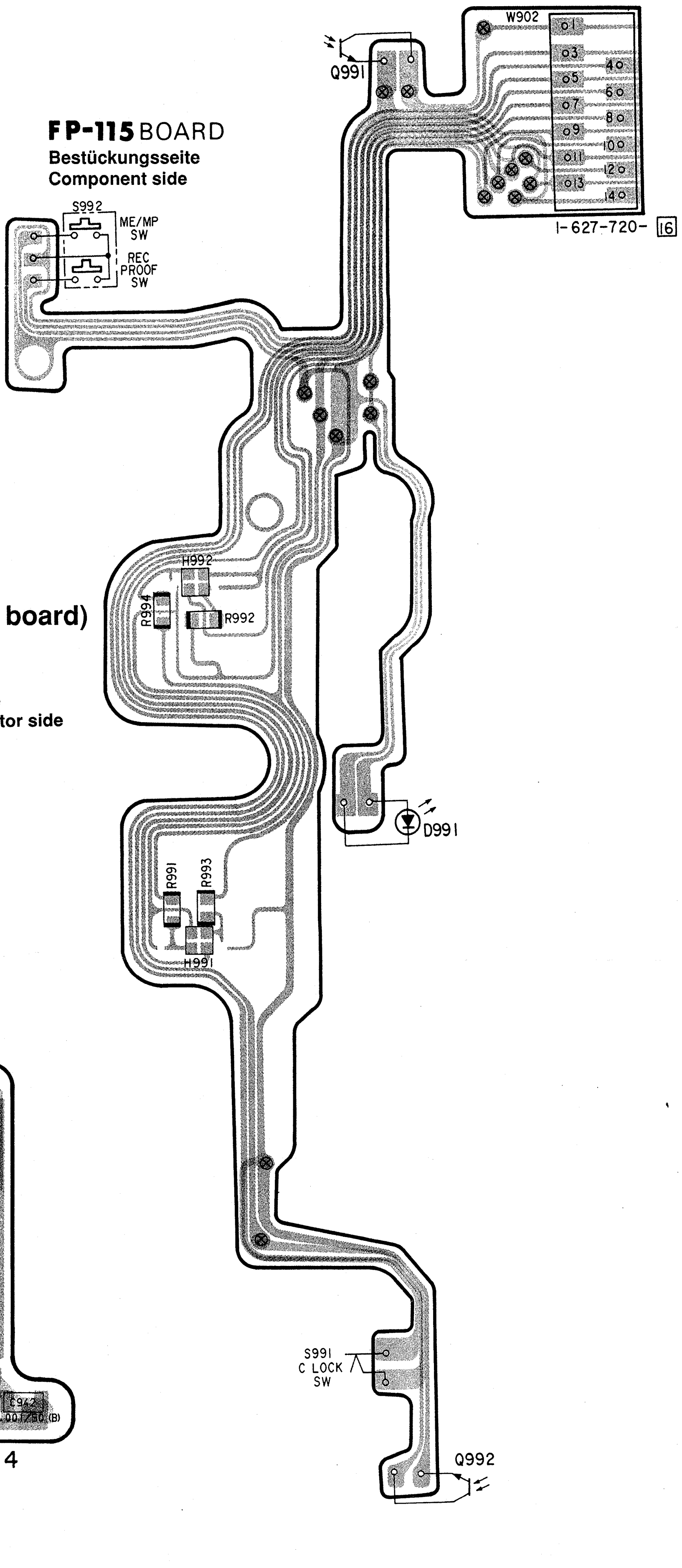

Q416, 417
LINE AMP
Q415,418, 419
MUTE
TP403
CHECKER CHIP
C470 100P
R467 8200
R471 120
Q417 2SA1576
R472 1200
R446 68K
Q415 2SK1332
C438 0.1 F
R475 470
Q416 2SC4081
R468 1000
R470 270
C439 2.2 10V TA A
R445 330K
R449 22K
Q418 2SA1576
R448 2200
R469 820
CHECKER CHIP
TP404
R444 8200
C437 0.047 B
R447 47K
Q419 2SC4081
2125
C432 47 6.3V
R441 6800
Q414 DTA144WU
D402 MA8082H (B-14)
C471 100P
CHASSIS GND
C433 100 6.3V
C431 6.8 35V
Q414(A-4)
TIME CONSTANT SWITCH
C429 47 6.3V
C434 20V TA
C430 0.1 F
C428 47 6.3V
R440 10K
Q413 (A-11)
REC AFM BUFFER
Q413 2SC4081
<REC AFM CURRENT>
REC/PB mode
REC mode
PB mode

SW-161 BOARD Bestückungsseite
Component side


CN754
1-565-874-11
1-635-762-
21

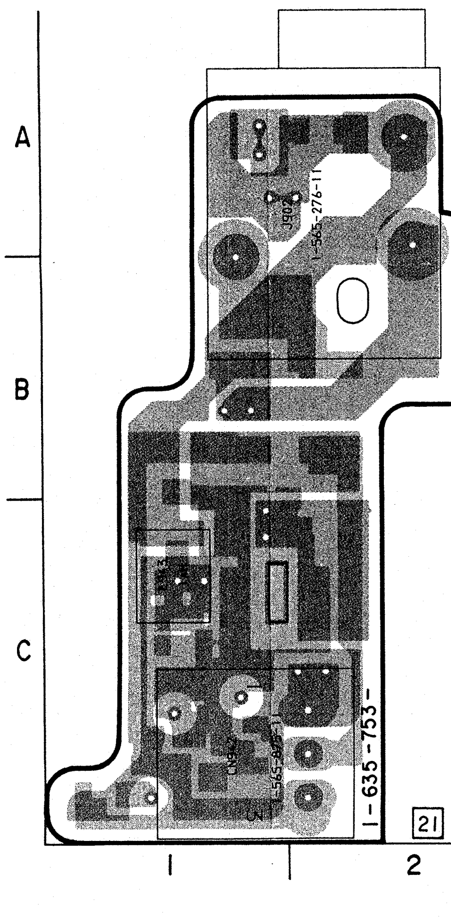
09

FP-115 BOARD
Bestückungsseite
Component side

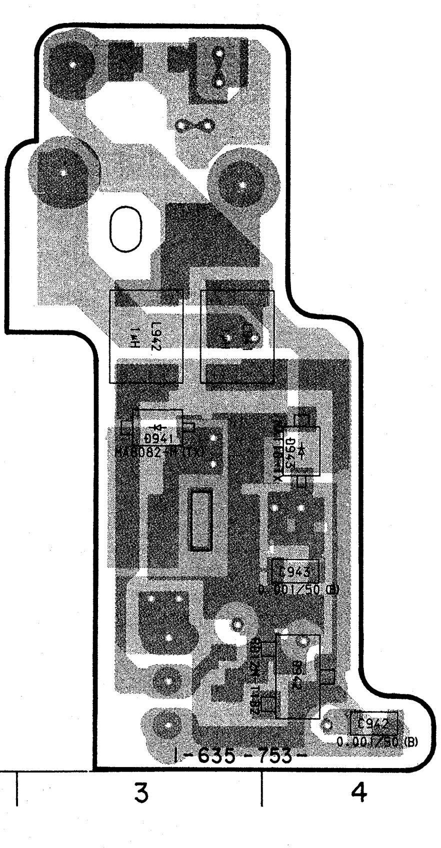

S992
ME/MP SW
REC PROOF SW
W902
Q991
1-627-720-
16
H992
R994
R992
D991
R991
R993
H991
S991
C LOCK SW
Q992

EL- 11 Platine (Remote-Buchse, Mehrschicht- Leiterplatte)
EL- 11 (Remote Jack) Printed Wiring Board (multi layer wiring board)

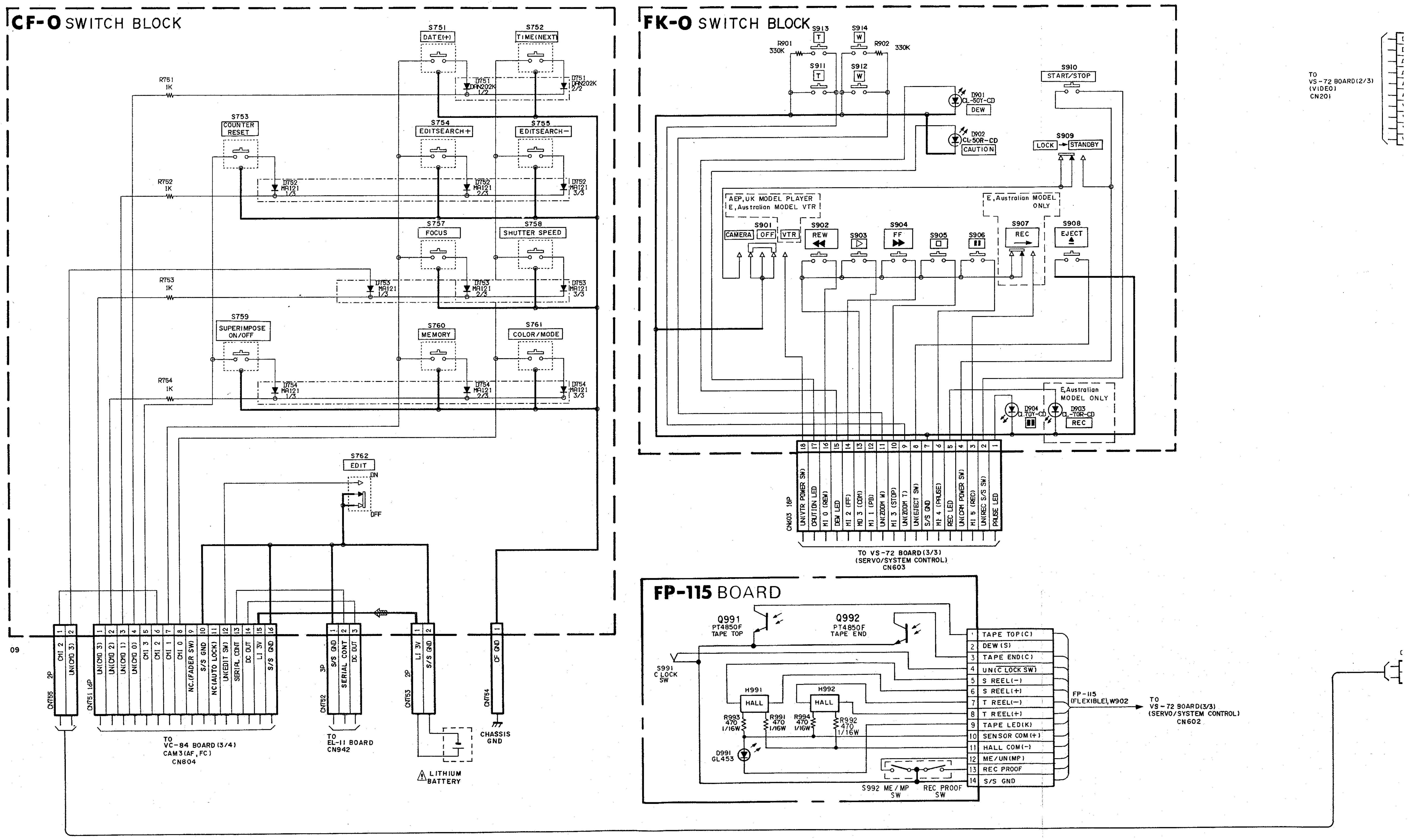
EL-11 BOARD Bestückungsseite
Component side


J902
1-565-276-11
CN1
1-635-753-
21
A
B
C
1
2

EL-11 BOARD Lötseite
Conductor side

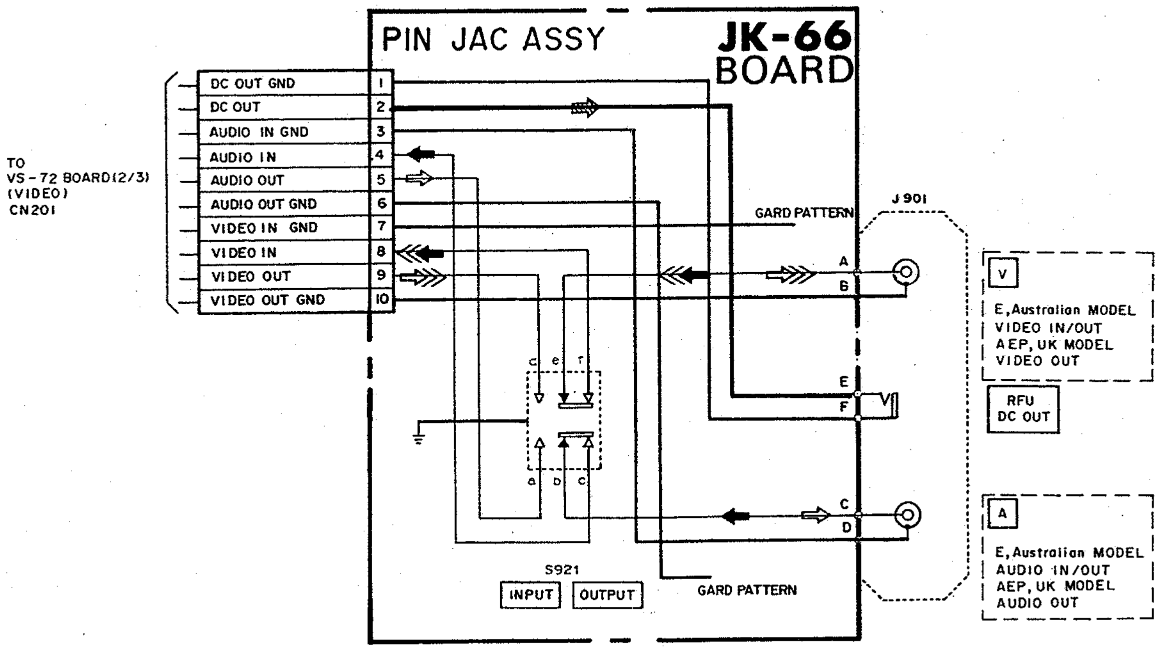

L942
D941
C943
C942
0.001/50(B)
1-635-753-
3
4

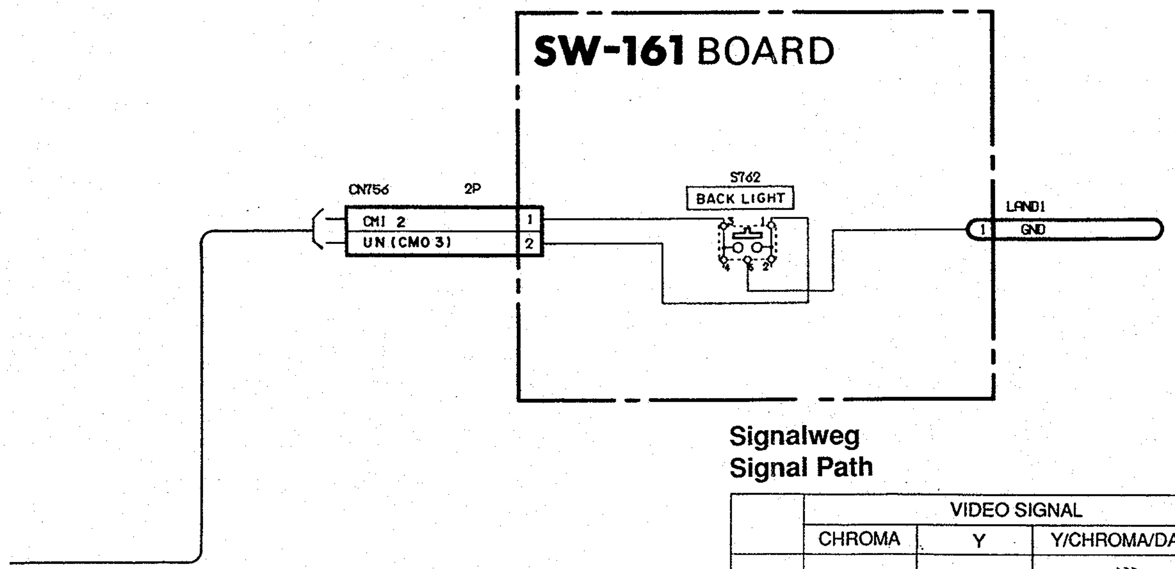
CF-0 (Kamera-Funktionsschalter), FK-0 (VTR-Funktionsschalter), JK-66 (Video/Audio-Ausgang), FP-115 (Band-Anfang-/Ende-Sensor, Bandumschaltung), SW-161 (Gegenlichtschalter) Schaltbild
CF-0 (Camera Function Switch), FK-0 (VTR Function Switch), JK-66 (Video/Audio Output), FP-115 (Tape Top/End Sensor, Tape Select), SW-161 (Back Light Switch) Schematic Diagram



CF-0 SWITCH BLOCK
S751 DATE(+)
S752 TIME(NEXT)
D751 DAN202K 1/2
D751 DAN202K 2/2
R751 1K
S753 COUNTER RESET
S754 EDITSEARCH+
S755 EDITSEARCH−
R752 1K
D752 MA121 1/3
D752 MA121 2/3
D752 MA121 3/3
S757 FOCUS
S758 SHUTTER SPEED
R753 1K
D753 MA121 1/3
D753 MA121 2/3
D753 MA121 3/3
S759 SUPERIMPOSE ON/OFF
S760 MEMORY
S761 COLOR/MODE
R754 1K
D754 MA121 1/3
D754 MA121 2/3
D754 MA121 3/3
S762 EDIT
ON
OFF
09
CN755 2P
CH1 2
UN(CMD 3)
CN751 16P
UN(CMD 3)
UN(CMD 2)
UN(CMD 1)
UN(CMD 0)
CH1 3
CH1 2
CH1 1
CH1 0
NC.(FADER SW)
S/S GND
NC(AUTO LOCK)
UN(EDIT SW)
SERIAL CONT
DC OUT
LI 3V
S/S GND
TO VC-84 BOARD (3/4) CAM3(AF,FC) CN804
CN752 3P
S/S GND
SERIAL CONT
DC OUT
TO EL-11 BOARD CN942
CN753 2P
LI 3V
S/S GND
LITHIUM BATTERY
CN754
CF GND
CHASSIS GND
FK-0 SWITCH BLOCK
S913 T
S914 W
R901 330K
R902 330K
S911 T
S912 W
S910 START/STOP
D901 CL-50Y-CD DEW
D902 CL-50R-CD CAUTION
S909 LOCK → STANDBY
AEP,UK MODEL PLAYER
E,Australian MODEL VTR
E,Australian MODEL ONLY
S901 CAMERA OFF VTR
S902 REW
S903
S904 FF
S905
S906
S907 REC
S908 EJECT
E,Australian MODEL ONLY
D904 CL-70Y-CD
D903 CL-70R-CD REC
CN603 18P
UN(VTR POWER SW)
CAUTION LED
MI 0 (REW)
DEW LED
MI 2 (FF)
MO 3 (COM)
MI 1 (PB)
UN(ZOOM W)
MI 3 (STOP)
UN(ZOOM T)
UN(EJECT SW)
S/S GND
MI 4 (PAUSE)
REC LED
UN(CAM POWER SW)
MI 5 (REC)
UN(REC S/S SW)
PAUSE LED
TO VS-72 BOARD (3/3) (SERVO/SYSTEM CONTROL) CN603
TO VS-72 BOARD (2/3) (VIDEO) CN201
FP-115 BOARD
Q991 PT4850F TAPE TOP
Q992 PT4850F TAPE END
S991 C LOCK SW
H991 HALL
H992 HALL
R993 470 1/16W
R991 470 1/16W
R994 470 1/16W
R992 470 1/16W
D991 GL453
S992 ME/MP SW
REC PROOF SW
1 TAPE TOP(C)
2 DEW (S)
3 TAPE END(C)
4 UN(C LOCK SW)
5 S REEL(−)
6 S REEL(+)
7 T REEL(−)
8 T REEL(+)
9 TAPE LED(K)
10 SENSOR COM(+)
11 HALL COM(−)
12 ME/UN(MP)
13 REC PROOF
14 S/S GND
FP-115 (FLEXIBLE),W902
TO VS-72 BOARD(3/3) (SERVO/SYSTEM CONTROL) CN602

alter) Schaltbild
gram

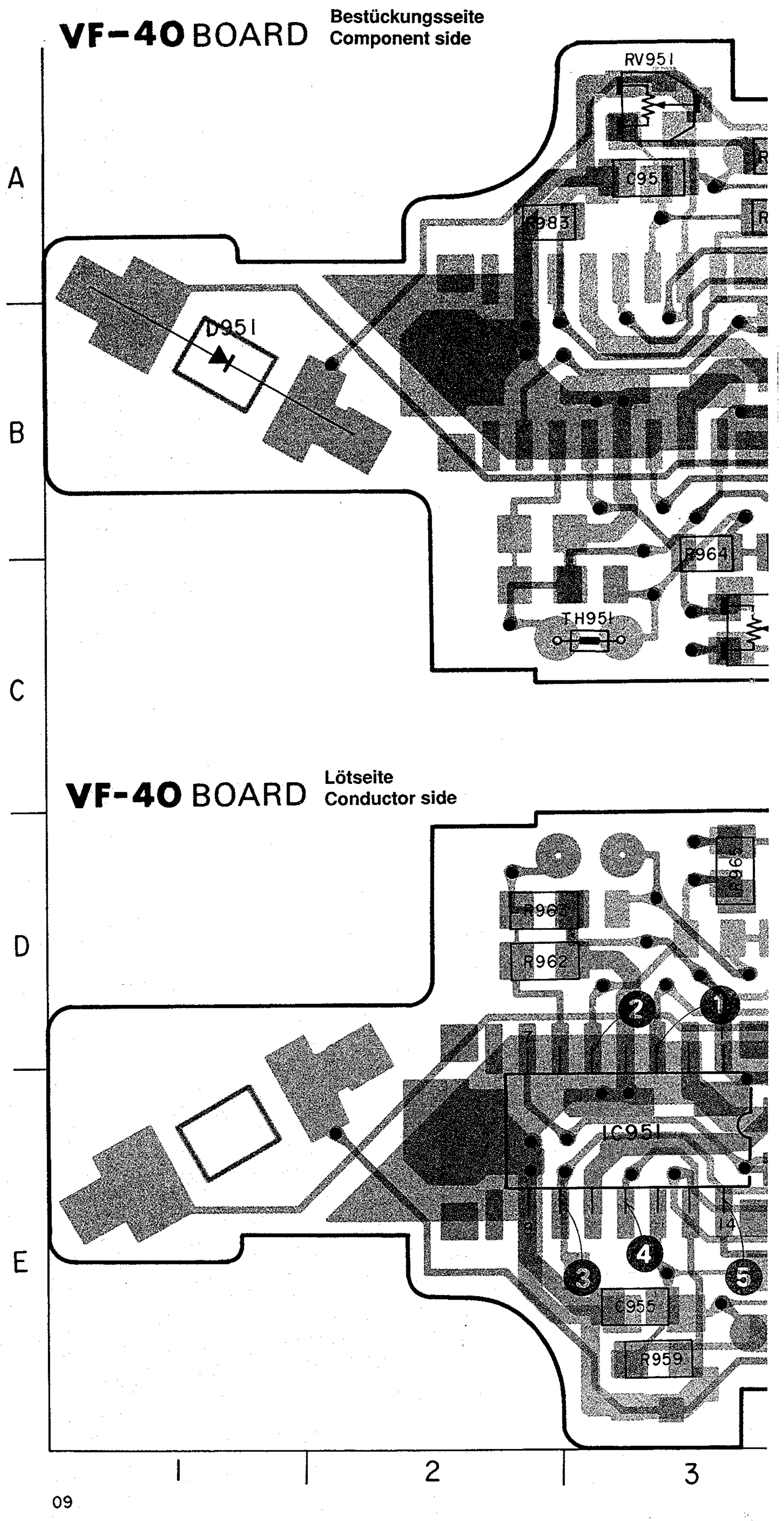

PIN JAC ASSY
JK-66
BOARD
TO
VS-72 BOARD(2/3)
(VIDEO)
CN201
DC OUT GND
DC OUT
AUDIO IN GND
AUDIO IN
AUDIO OUT
AUDIO OUT GND
VIDEO IN GND
VIDEO IN
VIDEO OUT
VIDEO OUT GND
1
2
3
4
5
6
7
8
9
10
GARD PATTERN
J901
A
B
E
F
C
D
S921
INPUT
OUTPUT
GARD PATTERN
V
E,Australian MODEL
VIDEO IN/OUT
AEP,UK MODEL
VIDEO OUT
RFU
DC OUT
A
E,Australian MODEL
AUDIO IN/OUT
AEP,UK MODEL
AUDIO OUT


SW-161 BOARD
CN756
2P
CMI 2
UN (CMO 3)
1
2
S762
BACK LIGHT
LAND1
1
GND

Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC			⇛	➡
PB			⇨	⇨

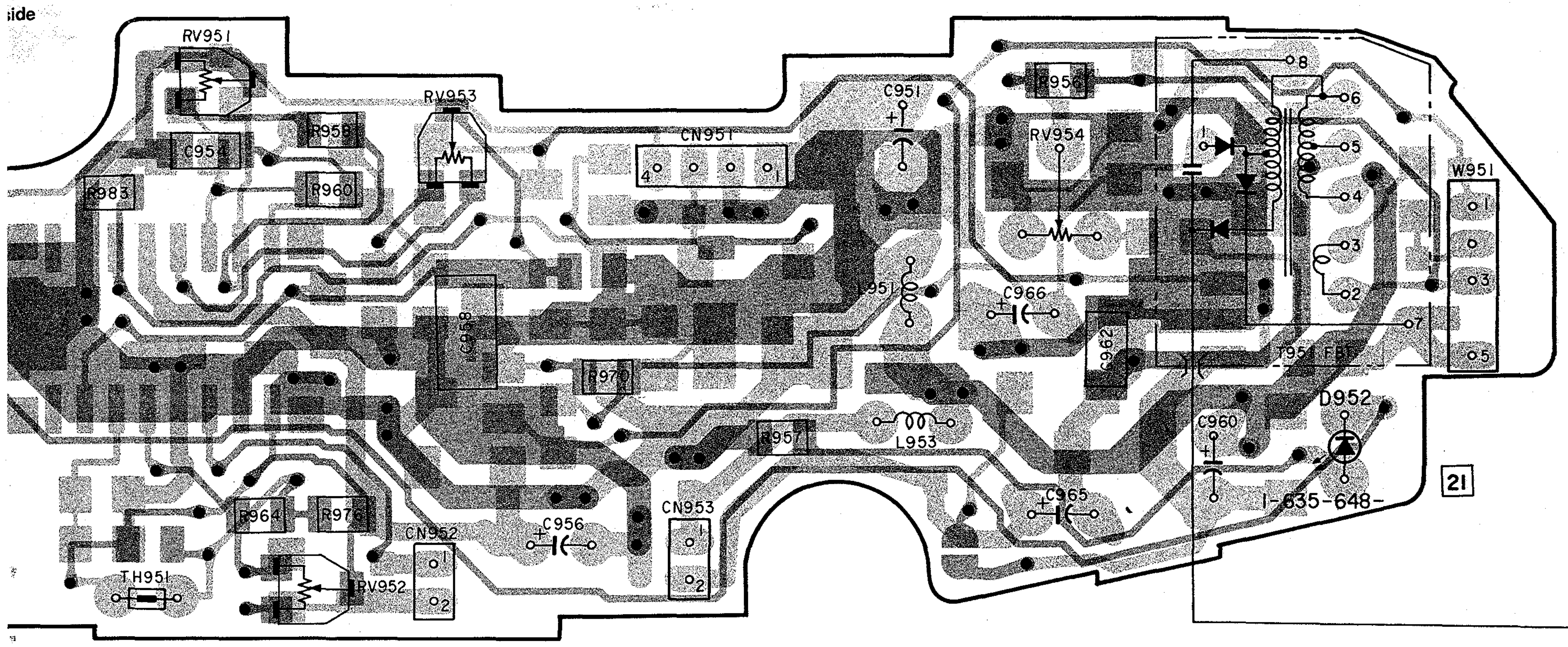
VF- 40 Platine (Elektron. Sucher)
VF- 40 (Electrical View Finder) Printed Wiring Board

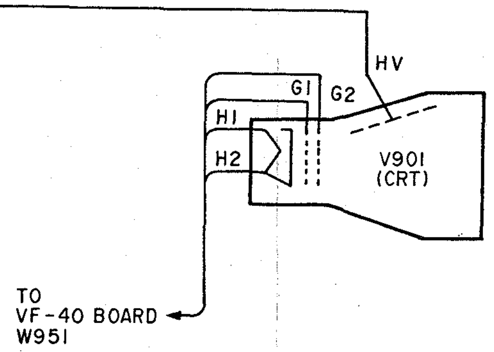

VF-40 BOARD
Bestückungsseite
Component side
RV951
C95
R983
D951
R964
TH951
A
B
C
VF-40 BOARD
Lötseite
Conductor side
R963
R962
R96
IC951
C955
R959
1
2
3
4
5
D
E
1
2
3
09

nted Wiring Board

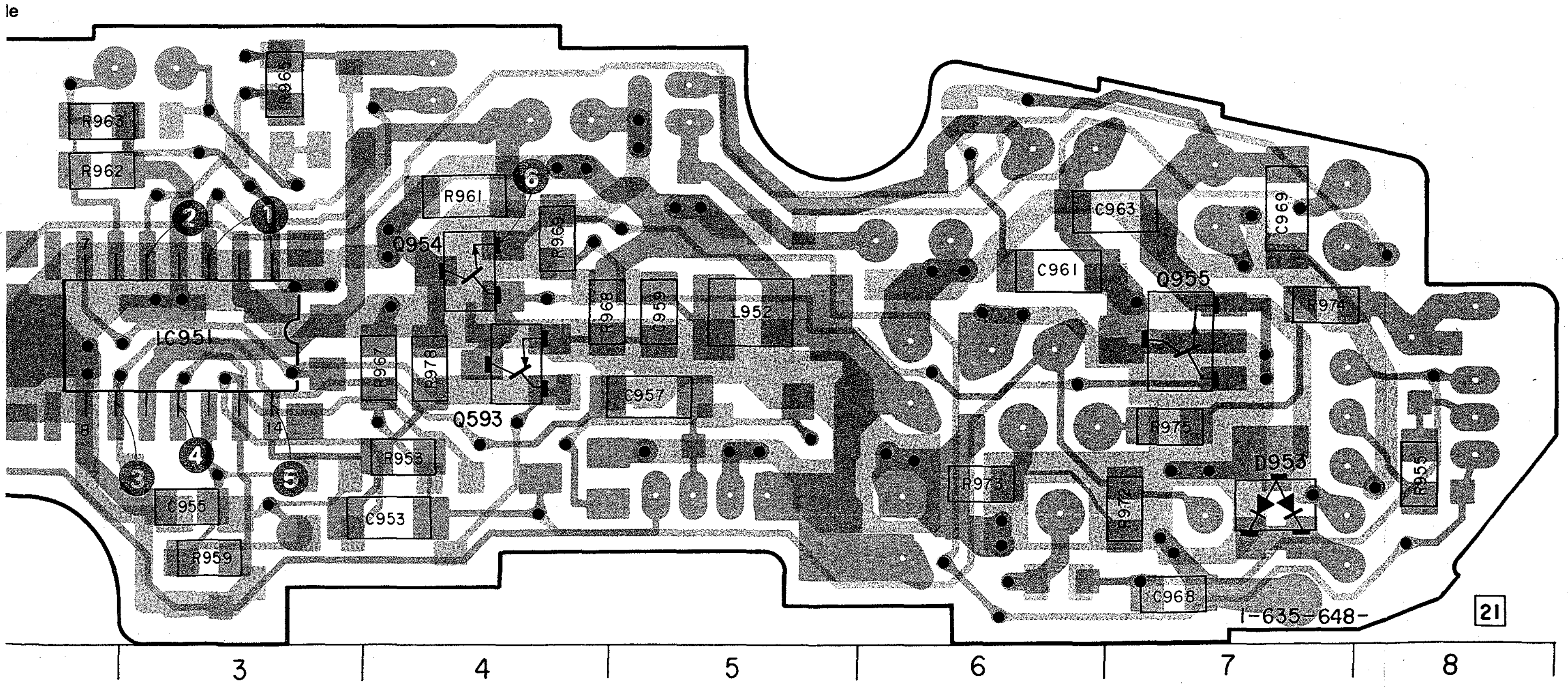
VF- 40 Platine (Elektron. Sucher)
VF- 40 (Electrical View Finder) Printed Wiring Board

seite
side

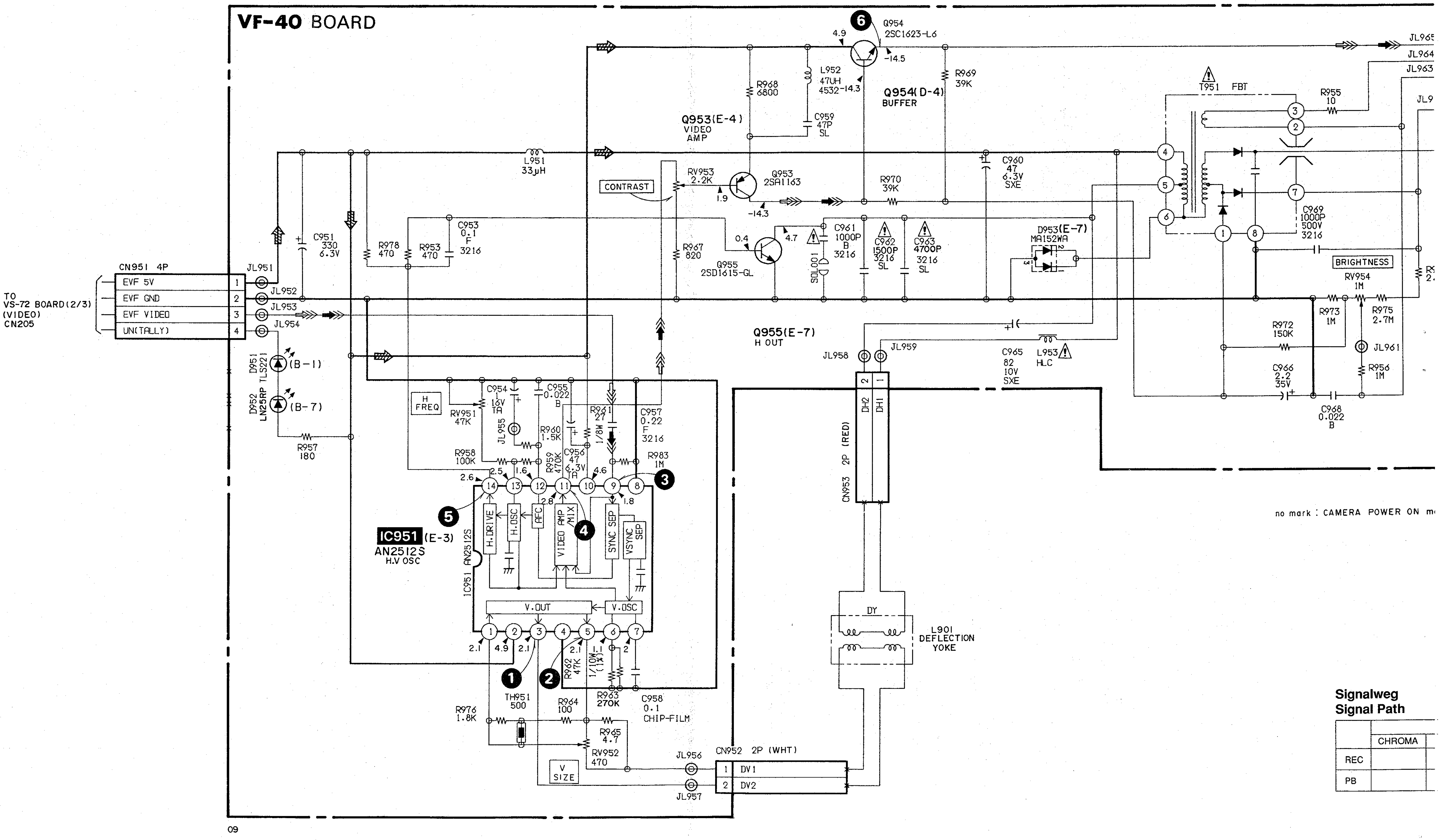

RV951
RV953
C951
CN951
4
1
R956
RV954
8
6
5
4
3
2
7
W951
1
2
3
5
R958
C954
R983
R960
C958
L951
C966
C962
T951 FBT
R970
L953
R957
D952
C960
C965
1-635-648-
21
CN953
1
2
C956
R964
R976
CN952
1
2
TH951
RV952


HV
G1
G2
H1
H2
V901
(CRT)
TO
VF-40 BOARD
W951

le


R965
R963
R962
R961
①
②
⑥
Q954
R969
IC951
7
8
14
③
④
⑤
R967
R978
Q593
R953
C955
R959
C953
R968
C959
L952
C957
C961
C963
C969
Q955
R974
R975
R973
R972
D953
R955
C968
1-635-648-
21
3
4
5
6
7
8

VF- 40 Schaltbild (Elektron. Sucher)
VF- 40 (Electrical View Finder) Schematic Diagram

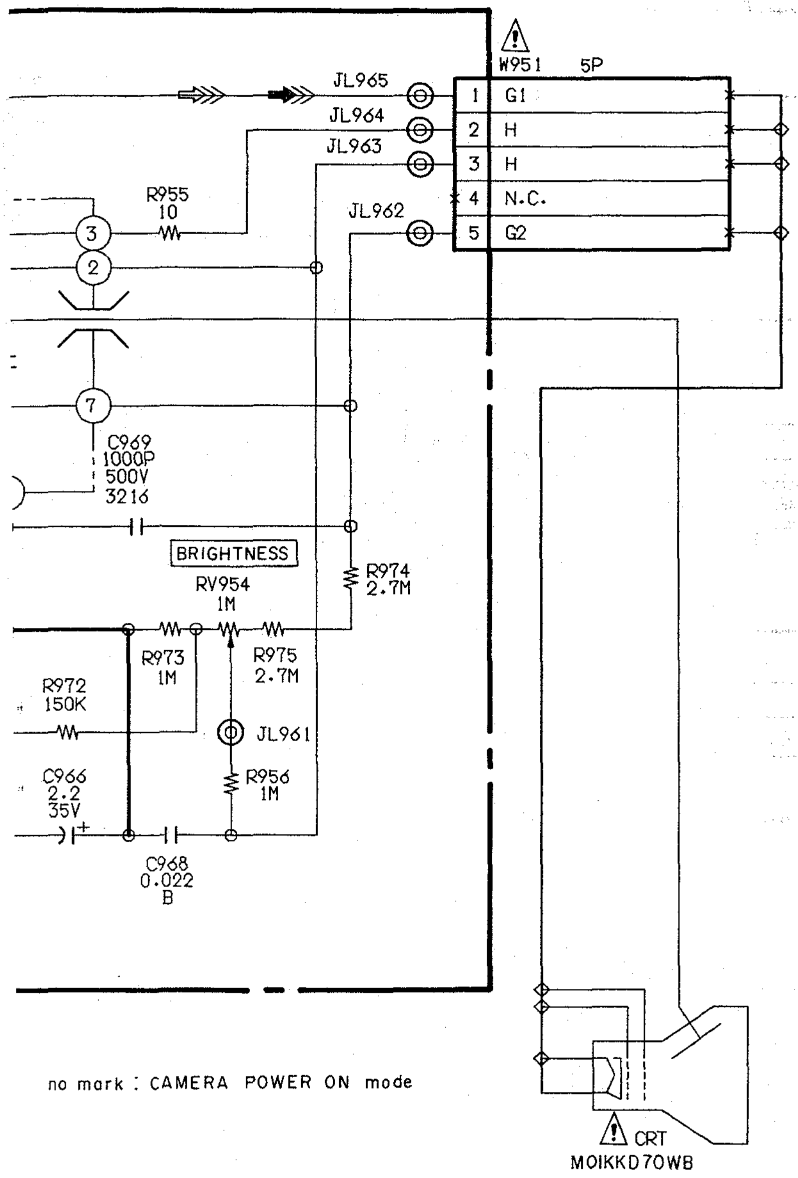

VF-40 BOARD
TO VS-72 BOARD(2/3) (VIDEO) CN205
CN951 4P
EVF 5V
EVF GND
EVF VIDEO
UN(TALLY)
JL951
JL952
JL953
JL954
D951 TLS221 (B-1)
D952 LN25RP (B-7)
R957 180
C951 330 6.3V
L951 33μH
R978 470
R953 470
C953 0.1 F 3216
CONTRAST
RV953 2.2K
R967 820
Q953(E-4) VIDEO AMP
Q953 2SA1163
R968 6800
L952 47UH 4532
C959 47P SL
Q954 2SC1623-L6
Q954(D-4) BUFFER
R969 39K
R970 39K
Q955 2SD1615-GL
Q955(E-7) H OUT
SOL001
C961 1000P B 3216
C962 1500P 3216 SL
C963 4700P 3216 SL
C960 47 6.3V SXE
D953(E-7) MA152WA
T951 FBT
R955 10
C969 1000P 500V 3216
BRIGHTNESS
RV954 1M
R973 1M
R975 2.7M
R972 150K
JL961
R956 1M
C966 2.2 35V
C968 0.022 B
C965 82 10V SXE
L953 HLC
JL958
JL959
CN953 2P (RED)
DH2
DH1
DY
L901 DEFLECTION YOKE
JL963
JL964
JL965
H FREQ
RV951 47K
C954 1 16V TA
C955 0.022 B
JL955
R960 1.5K
R961 27 1/8W
C957 0.22 F 3216
R983 1M
R958 100K
R959 470K
C956 47 6.3V TA
IC951 (E-3)
AN2512S H.V OSC
IC951 AN2512S
H.DRIVE
H.OSC
AFC
VIDEO AMP MIX
SYNC SEP
VSYNC SEP
V.OUT
V.OSC
R962 47K
1/10W 1.1 (1%)
TH951 500
R976 1.8K
R964 100
R963 270K
R965 4.7
RV952 470
V SIZE
C958 0.1 CHIP-FILM
JL956
JL957
CN952 2P (WHT)
DV1
DV2
09
4.9
-14.5
-14.3
1.9
0.4
4.7
2.6
2.5
1.6
2.8
4.6
1.8
2.1
2

no mark : CAMERA POWER ON m

Signalweg
Signal Path

	CHROMA
REC	
PB	

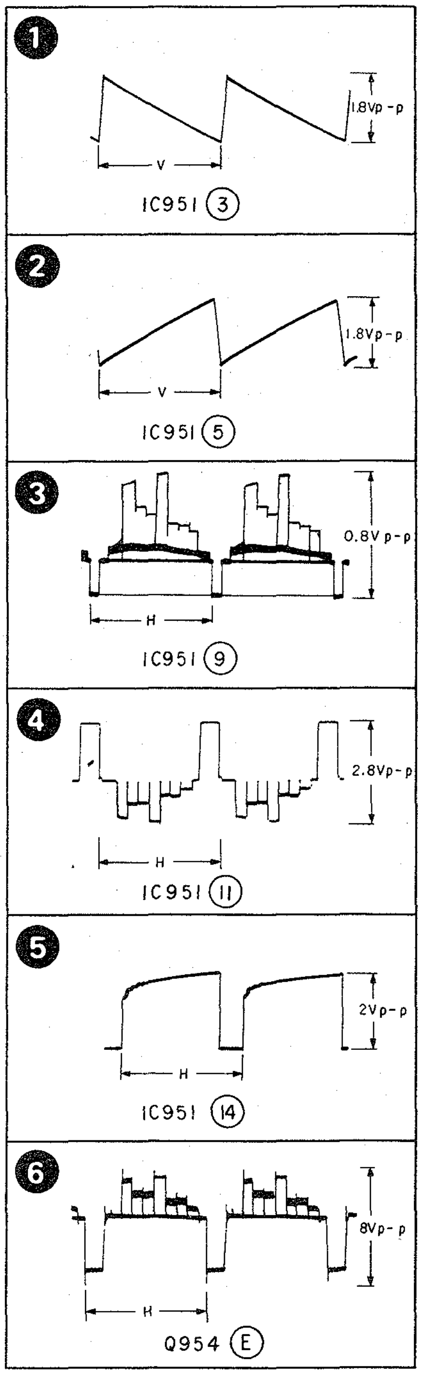
VF- 40 Schaltbild (Elektron. Sucher)
VF- 40 (Electrical View Finder) Schematic Diagram


W951 5P
JL965
JL964
JL963
JL962
1 G1
2 H
3 H
4 N.C.
5 G2
R955
10
3
2
7
C969
1000P
500V
3216
BRIGHTNESS
RV954
1M
R974
2.7M
R973
1M
R975
2.7M
R972
150K
JL961
C966
2.2
35V
R956
1M
C968
0.022
B
CRT
M01KKD70WB

no mark : CAMERA POWER ON mode

Oszillogramme der VF- 40 Platine
VF- 40 Board Waveforms

VF-40 BOARD

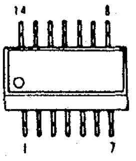


Signalweg
Signal Path

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC			➡	
PB			⇨	

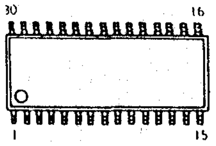
Halbleiter-Anschlußpunkte
Semi Conductor Connection Points

AN2512S



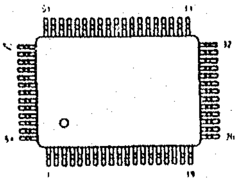
(TOP VIEW)

CXA1047M
CXA1127AM



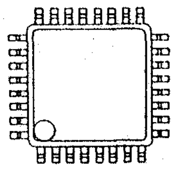
(Top view)

CXA1200BQ
µPD7503GF-J57-3B8

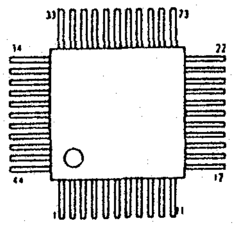


TOP VIEW

CXA1201Q



CXA1204Q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CXD1172AM
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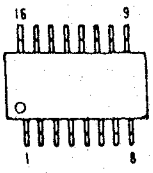
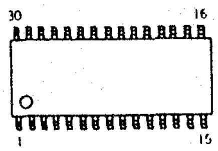


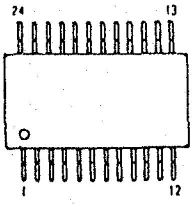
(TOP VIEW)

CXL1502M



(Top view)

CXL1503N



(TOP VIEW)

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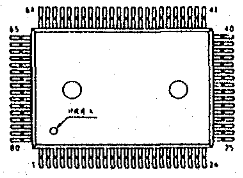

MARKING SIDE VIEW

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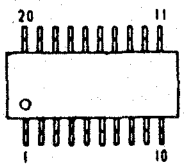

(TOP VIEW)

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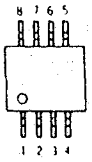

(TOP VIEW)

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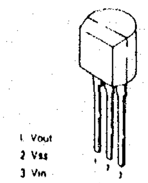
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3 Vin
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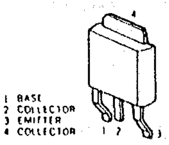
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3 EMITTER
4 COLLECTOR
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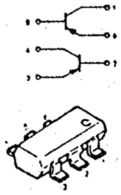

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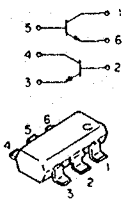
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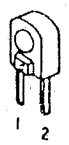
PT4850F



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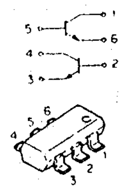

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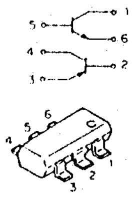

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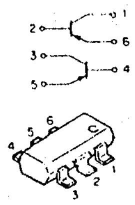

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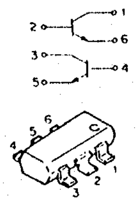

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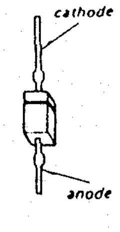
cathode
anode

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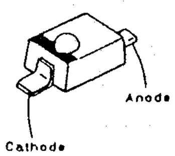
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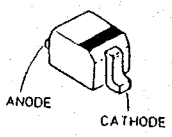
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CATHODE

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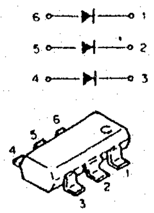

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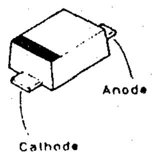
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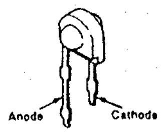
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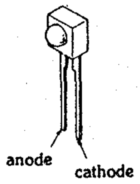
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cathode

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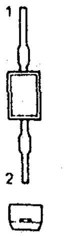

1 anode
2 cathode

Lfd. Nr.
Item no.

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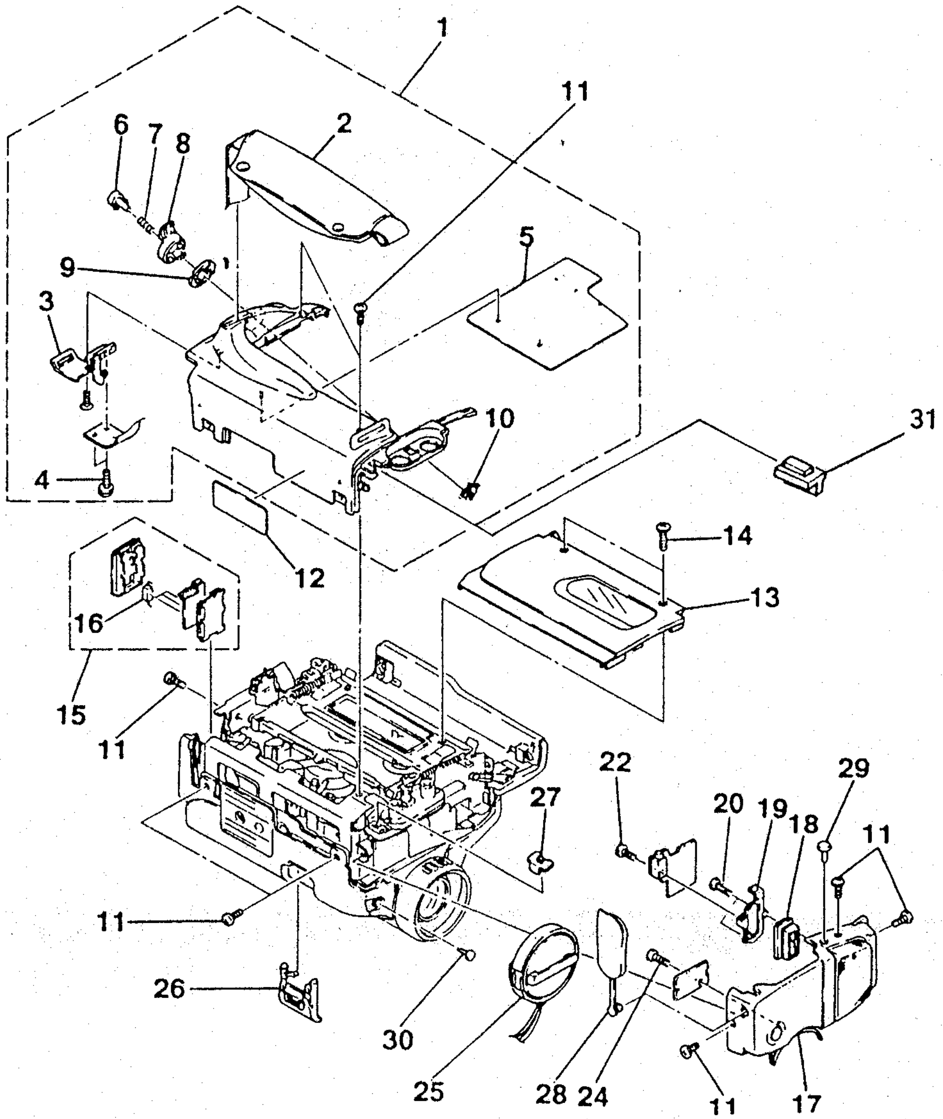
CCR-800 Explosionszeichnung (1) Gehäuseteile (L)
CCR-800 Exploded View (1) Cabinet (L) Assembly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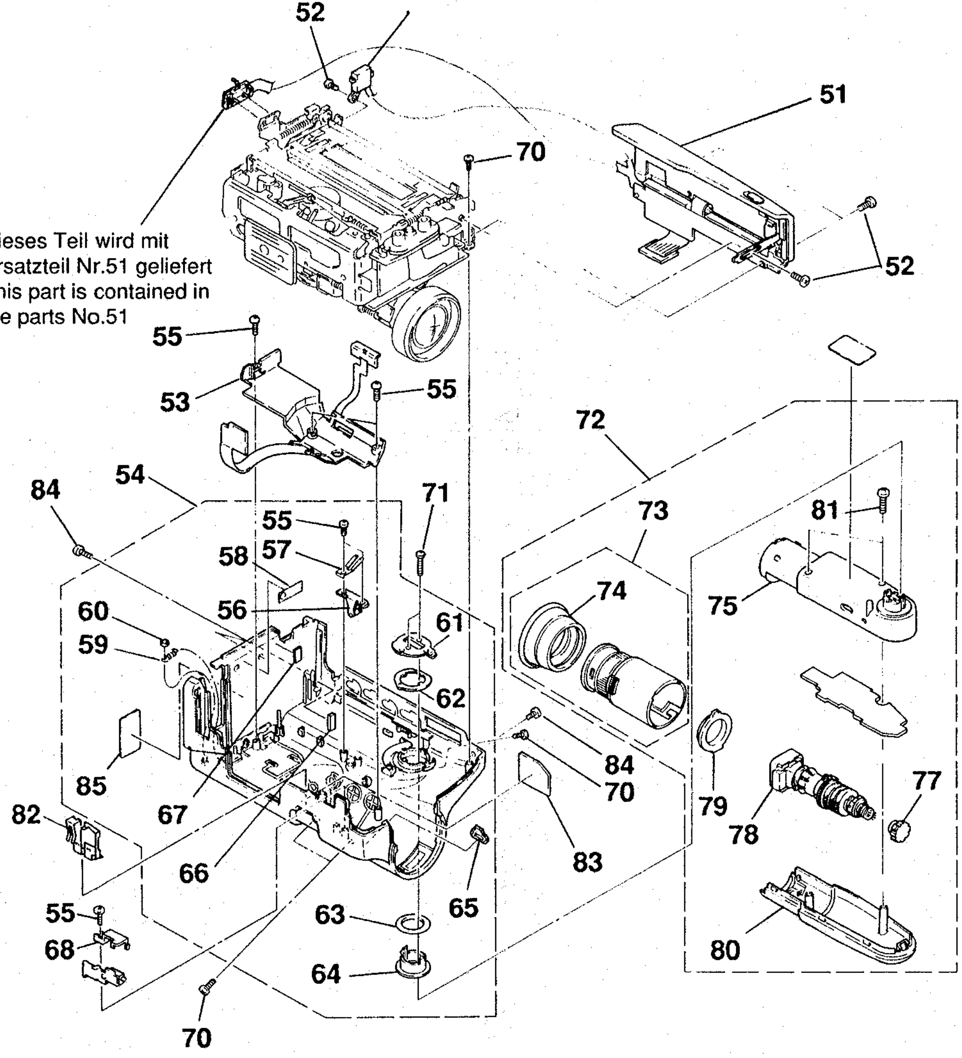
Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
1	8 619 501 177	15	8 619 403 038
2	8 619 403 027	16	8 619 581 004
3	8 619 403 028	17	8 619 501 179
4	8 619 403 029	18	8 619 403 039
5	8 619 403 030	19	8 619 403 040
6	8 619 403 031	20	8 619 403 050
7	8 619 403 032	22	8 619 403 048
8	8 619 403 033	24	8 619 403 041
9	8 619 403 034	25	8 619 403 042
10	8 619 403 035	26	8 619 403 043
11	8 619 511 501	28	8 619 403 044
12	8 619 403 036	29	8 619 403 045
13	8 619 501 178	30	8 619 403 046
14	8 619 403 037	31	8 619 403 047

CCR-800 Explosionszeichnung (2) Gehäuseteile (R)
CCR-800 Exploded View (2) Cabinet (R) Assembly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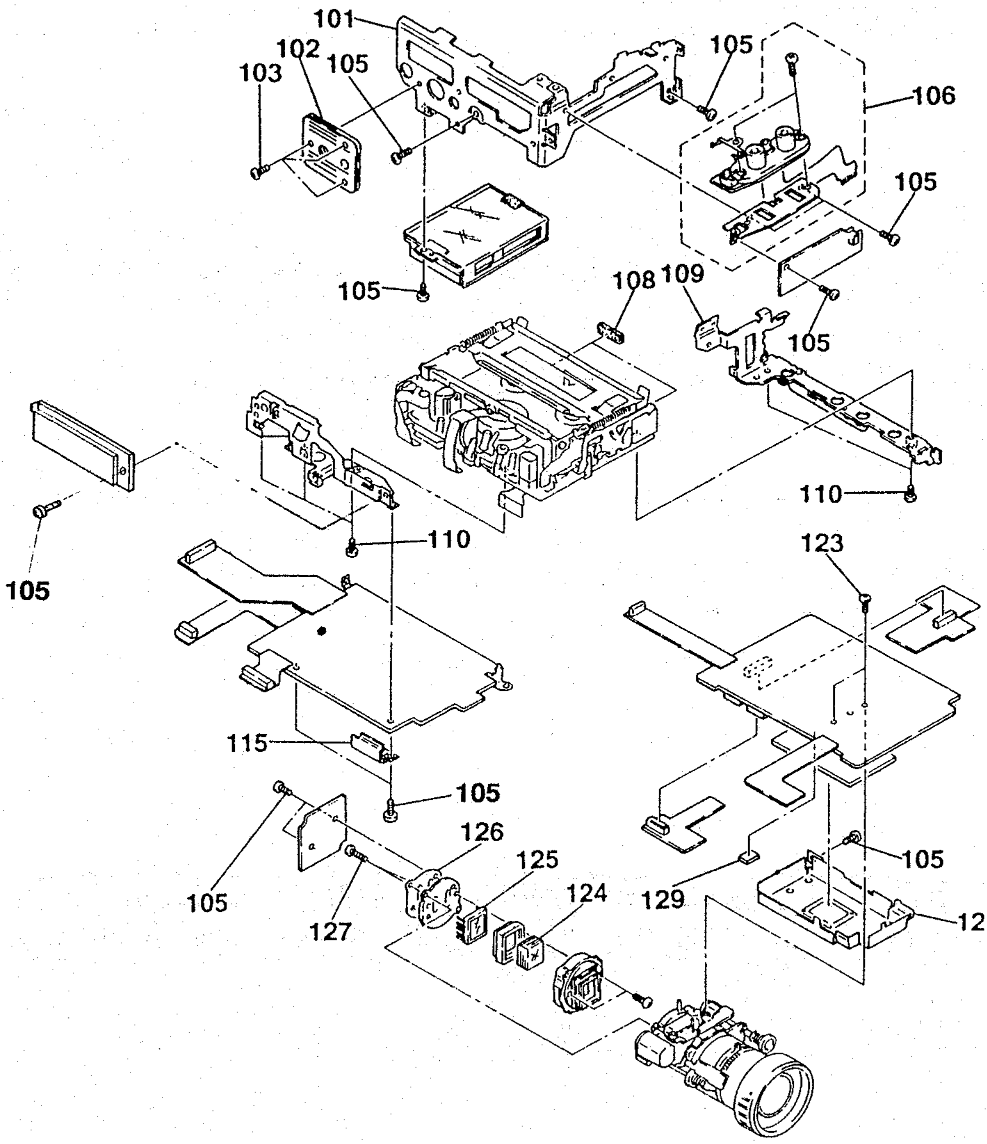
Dieses Teil wird mit Ersatzteil Nr.51 geliefert
This part is contained in the parts No.51

Dieses Teil wird mit Ersatzteil Nr.51 geliefert
This part is contained in the parts No.51

Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
51	8 619 501 180	68	8 619 403 061
52	8 619 403 048	70	8 619 403 041
53	8 619 403 049	71	8 619 403 063
54	8 619 501 176	72	8 619 501 174
55	8 619 403 050	73	8 619 403 064
56	8 619 403 051	74	8 619 403 065
57	8 619 403 052	75	8 619 403 066
58	8 619 403 053	77	8 619 521 649
59	8 619 511 638	78	8 619 403 067
60	8 619 511 405	79	8 619 403 068
61	8 619 403 054	80	8 619 501 175
62	8 619 403 055	81	8 619 403 069
63	8 619 403 056	82	8 619 403 070
64	8 619 403 057	83	8 619 403 071
65	8 619 403 058	84	8 619 511 501
66	8 619 403 059	85	8 619 403 072
67	8 619 403 060		

CCR-800 Explosionszeichnung (3) Hauptplatinen- und Camerateile
CCR-800 Exploded View (3) Main Boards and Camera Assemblies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Lfd. Nr. Item no.	Bestell-Nr. Part no.
101	8 619 403 073
102	8 619 403 074
103	8 619 511 501
105	8 619 403 048
106	8 619 403 076
108	8 619 403 077
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115	8 619 403 080
122	8 619 403 081
123	8 619 403 050
124	8 619 511 715
125	8 619 581 506
126	8 619 403 082
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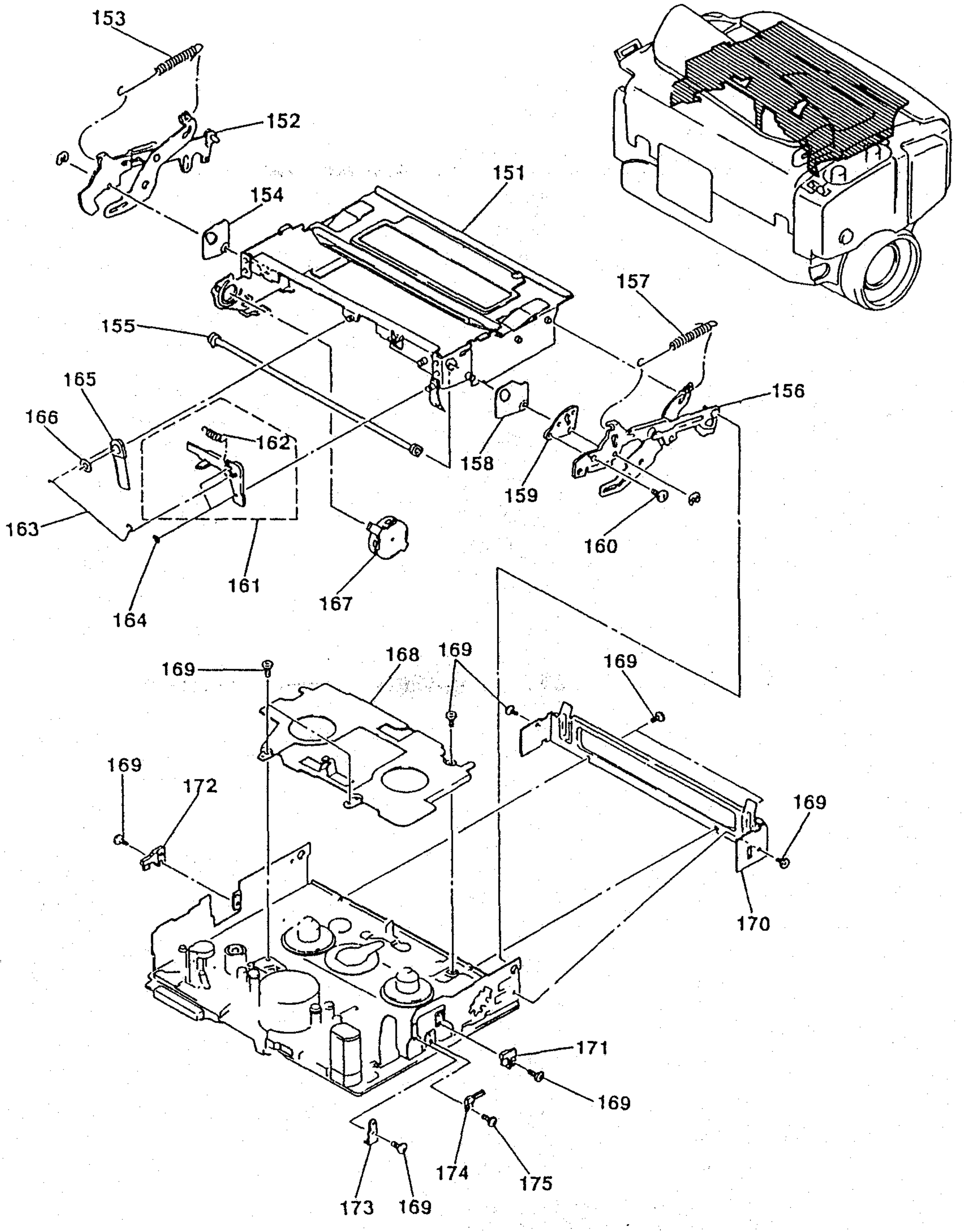
CCR-800 Explosionszeichnung (4) Kassettenhalterteile
CCR-800 Exploded View (4) Cassette Compartment Holder Assembly Assembly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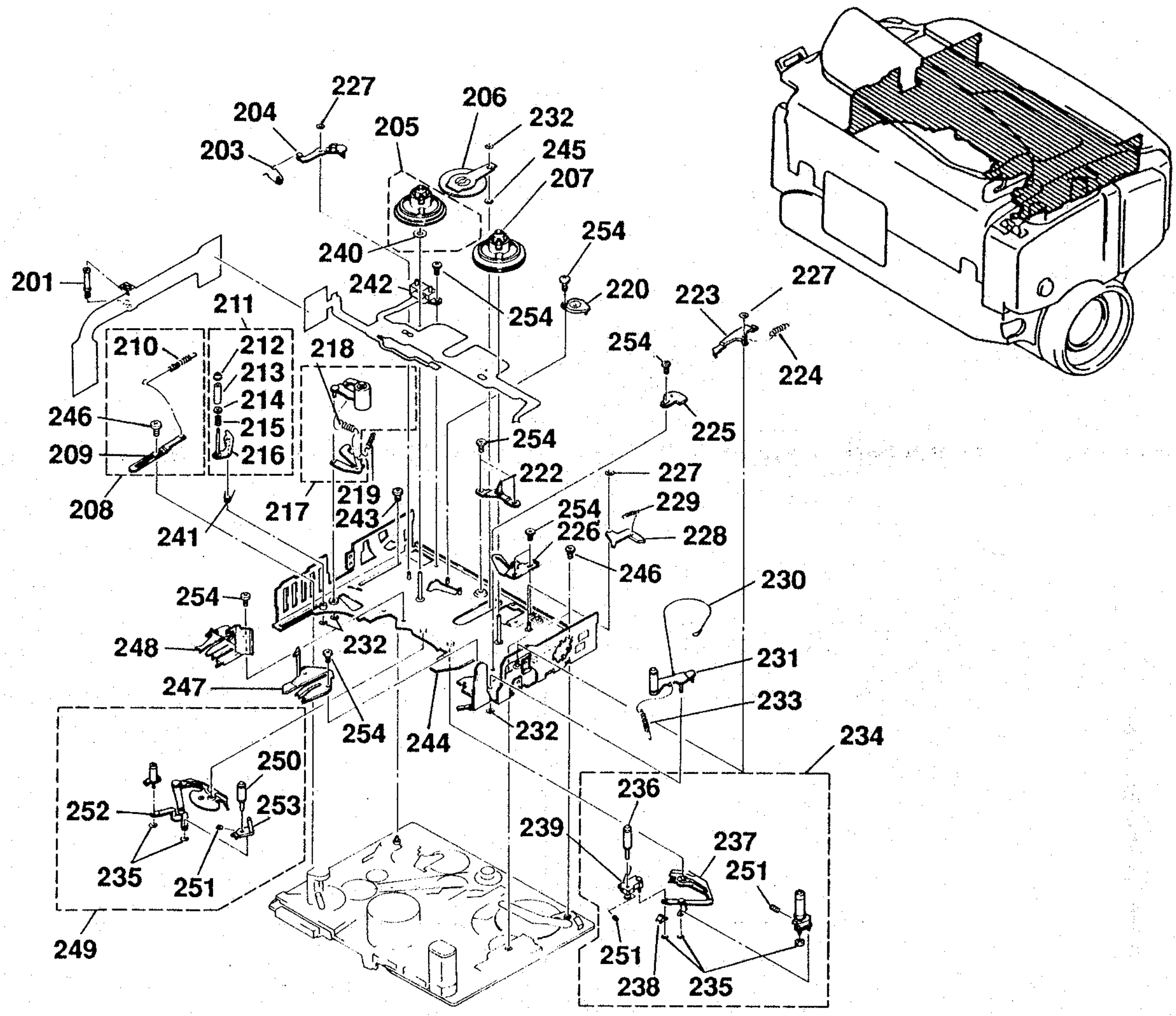
Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
151	8 619 403 085	164	8 619 403 098
152	8 619 403 086	165	8 619 403 099
153	8 619 403 087	166	8 619 413 003
154	8 619 403 088	167	8 619 413 004
155	8 619 403 089	168	8 619 413 005
156	8 619 403 090	169	8 619 413 006
157	8 619 403 091	170	8 619 413 007
158	8 619 403 092	171	8 619 413 008
159	8 619 403 093	172	8 619 413 009
160	8 619 403 094	173	8 619 413 010
161	8 619 403 095	174	8 619 521 229
162	8 619 403 096	175	8 619 413 011
163	8 619 403 097		

CCR-800 Explosionszeichnung (5) Chassisteile
CCR-800 Exploded View (5) LS Chassis Assembly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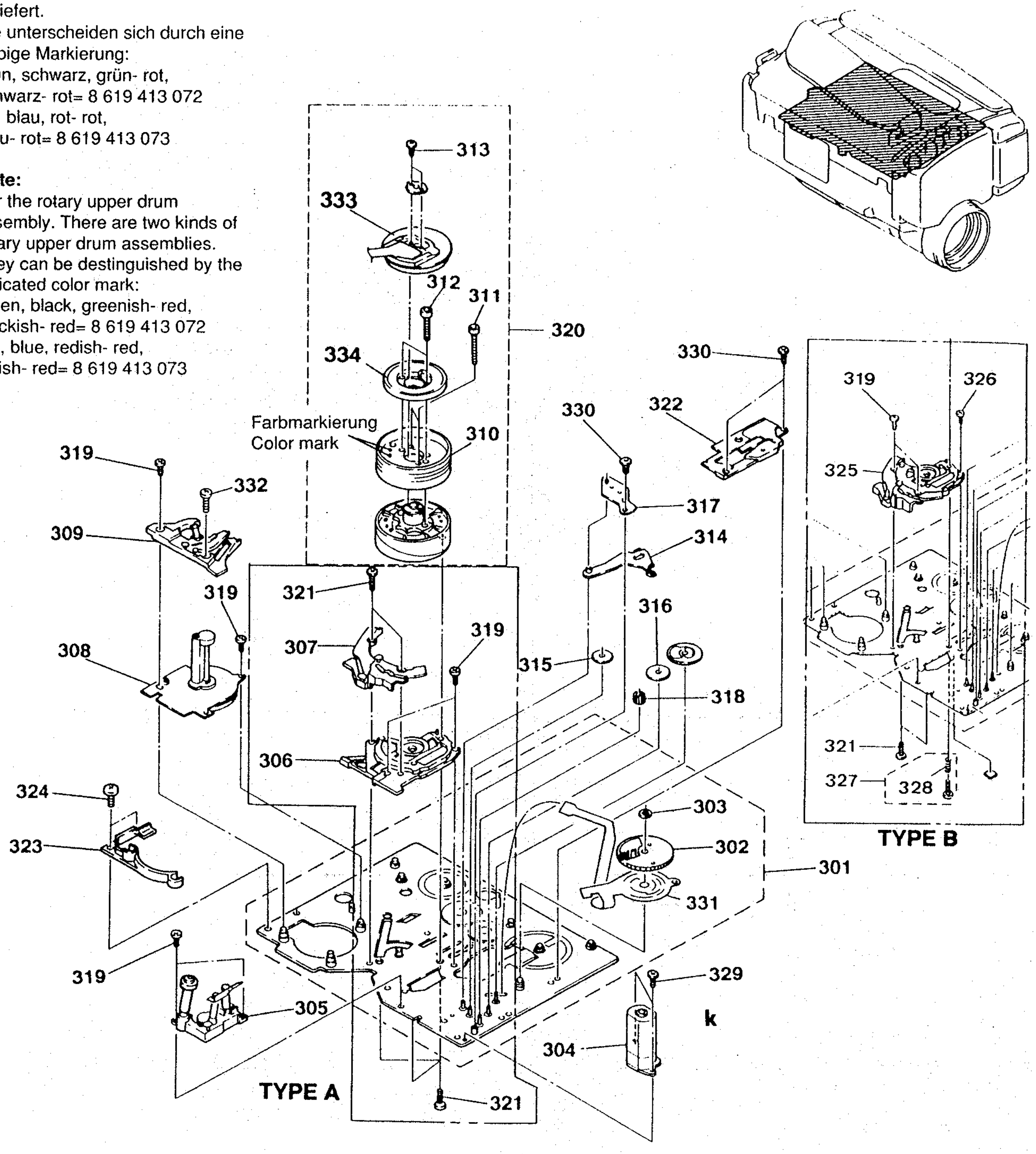
Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
201	8 619 413 012	229	8 619 413 038
203	8 619 413 013	230	8 619 413 039
204	8 619 413 014	231	8 619 413 040
205	8 619 413 015	232	8 619 413 041
206	8 619 413 016	233	8 619 413 042
207	8 619 413 017	234	8 619 413 043
208	8 619 413 018	235	8 619 403 098
209	8 619 413 019	236	8 619 413 045
210	8 619 413 020	237	8 619 413 046
211	8 619 413 021	238	8 619 413 047
212	8 619 413 022	239	8 619 413 048
213	8 619 413 023	240	8 619 413 049
214	8 619 413 024	241	8 619 413 050
215	8 619 413 025	242	8 619 413 051
216	8 619 413 026	243	8 619 413 052
217	8 619 413 027	244	8 619 413 053
218	8 619 413 028	245	8 619 413 054
219	8 619 413 029	246	8 619 403 094
220	8 619 413 030	247	8 619 413 056
222	8 619 413 031	248	8 619 413 057
223	8 619 413 032	249	8 619 413 058
224	8 619 413 033	250	8 619 413 059
225	8 619 413 034	251	8 619 413 060
226	8 619 413 035	252	8 619 413 061
227	8 619 413 036	253	8 619 413 062
228	8 619 413 037	254	8 619 413 006

CCR-800 Explosionszeichnung (6) Chassisteile 1
CCR-800 Exploded View (6) Mechanism Chassis Assembly 1

Hinweis.
Für dieses Gerät werden zwei unterschiedliche Kopfscheiben geliefert.
Sie unterscheiden sich durch eine farbige Markierung:
grün, schwarz, grün- rot,
schwarz- rot= 8 619 413 072
rot, blau, rot- rot,
blau- rot= 8 619 413 073

Note:
For the rotary upper drum assembly. There are two kinds of rotary upper drum assemblies. They can be destinguished by the indicated color mark:
green, black, greenish- red,
blackish- red= 8 619 413 072
red, blue, redish- red,
bluish- red= 8 619 413 073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Farbmarkierung
Color mark
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TYPE B
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TYPE A
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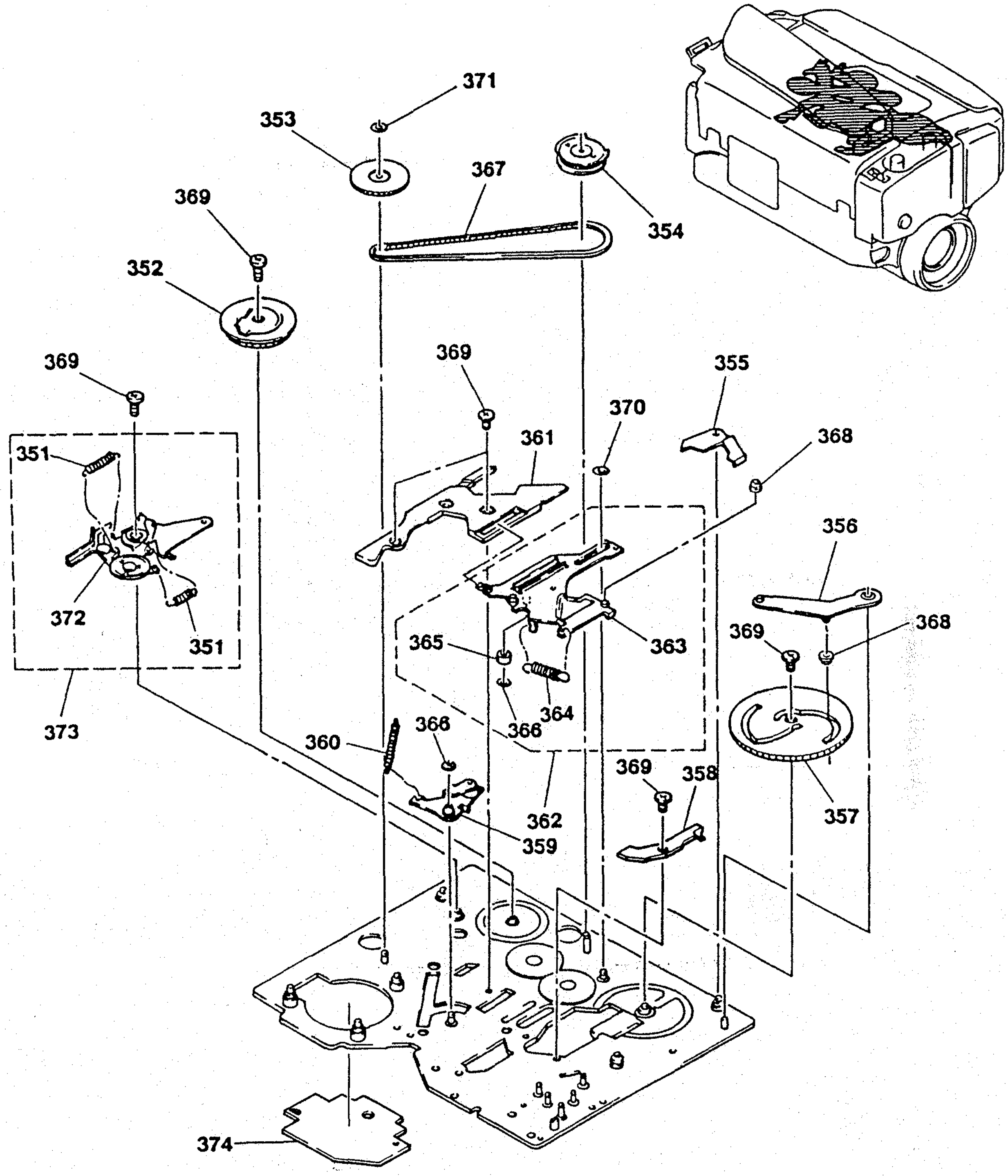
Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
301	8 619 413 063	312	8 619 413 075	324	8 619 403 094
302	8 619 413 064	313	8 619 413 076	325	8 619 413 085
303	8 619 413 065	314	8 619 413 437	326	8 619 413 086
304	8 619 413 066	315	8 619 413 077	327	8 619 413 087
305	8 619 413 067	316	8 619 413 078	328	8 619 413 088
306	8 619 413 068	317	8 619 413 079	329	8 619 413 089
307	8 619 413 069	318	8 619 413 080	330	8 619 413 090
308	8 619 413 070	319	8 619 413 011	332	8 619 413 091
309	8 619 413 071	320	8 619 413 081	333	8 619 413 092
310	8 619 413 072	321	8 619 413 082	334	8 619 413 093
310	8 619 413 073	322	8 619 413 083		
311	8 619 413 074	323	8 619 413 084		

CCR-800 Explosionszeichnung (7) Chassisteile 2
CCR-800 Exploded View (7) Mechanism Chassis Assembly 2



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Lfd. Nr. Item no.	Bestell-Nr. Part no.	Lfd. Nr. Item no.	Bestell-Nr. Part no.
351	8 619 413 094	363	8 619 413 162
352	8 619 413 095	364	8 619 413 163
353	8 619 413 096	365	8 619 413 164
354	8 619 413 097	366	8 619 403 098
355	8 619 413 098	367	8 619 413 166
356	8 619 413 099	368	8 619 413 167
357	8 619 413 156	369	8 619 413 090
358	8 619 413 157	370	8 619 413 168
359	8 619 413 158	371	8 619 413 036
360	8 619 413 159	372	8 619 413 170
361	8 619 413 160	373	8 619 413 171
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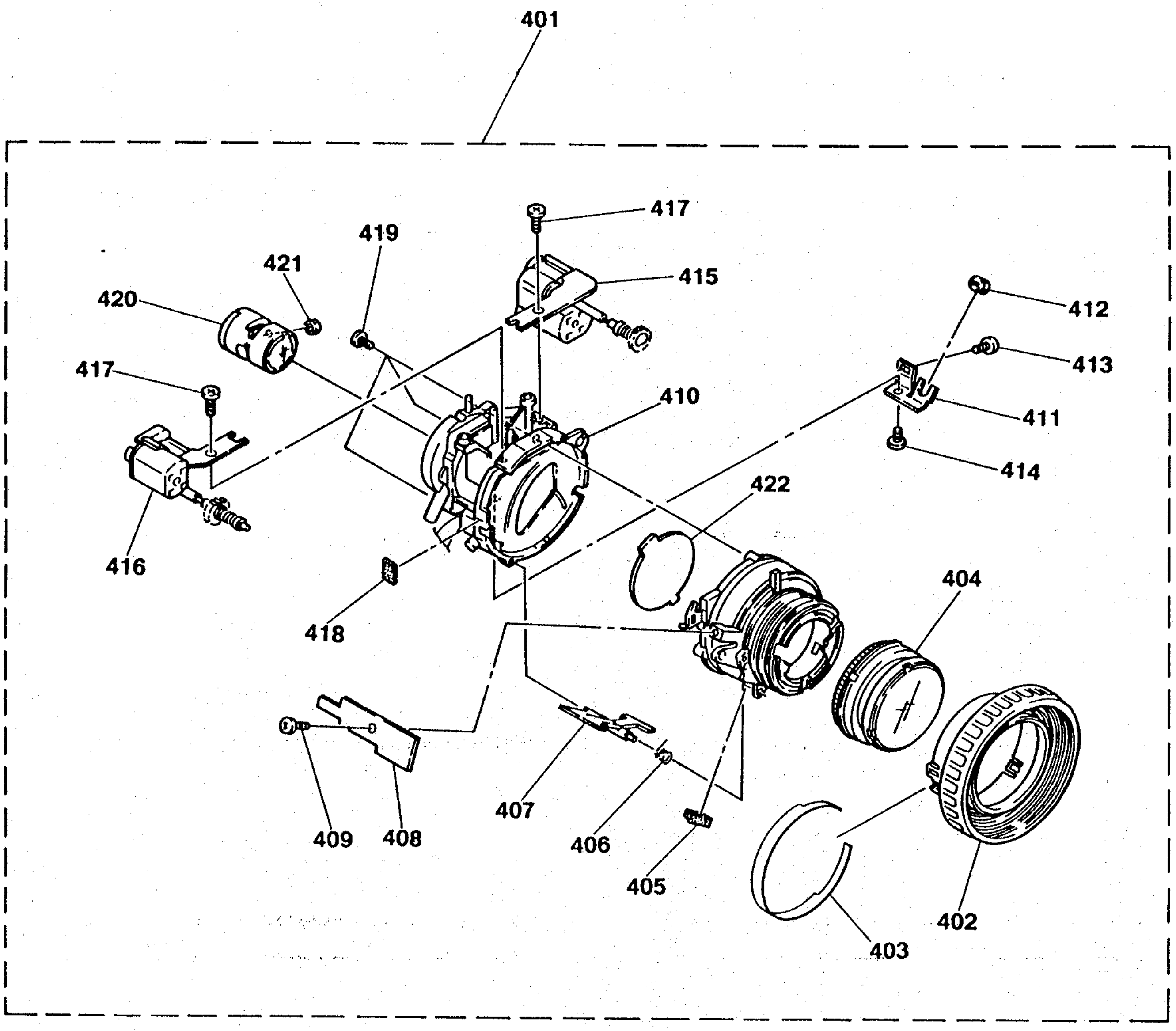
CCR-800 Explosionszeichnung (8) Optikteile
CCR-800 Exploded View (8) Lens Block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Lfd. Nr. Item no.	Bestell-Nr. Part no.
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421	8 619 413 193
422	8 619 413 194

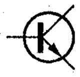
Wichtige mechanische Bauteile
Important mechanical parts

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Kopftrommel kompl. Drum assembly	8 619 413 081
2	Kopfscheibe Upper rotary assembly oder / or	8 619 413 072
2	Kopfscheibe Upper rotary assembly	8 619 413 075
3	Capstanmotor Capstan motor	8 619 413 070
4	Einfädelmotor Loading motor	8 619 413 066
5	Feuchtesensor (DEW) DEW sensor	8 619 423 945
6	Netzadapter PC-77 AC power adaptor PC-77	8 619 531 402
7	Verbindungskabel (Platte) für PC-77 Connecting cord (plate) for PC-77	8 619 591 701
8	HF-Konverter RF-80 RFU Adaptor RF-80	8 619 591 831
9	Schulterriemen Shoulder strap	8 619 591 833
10	Zwischenring 37 mm auf 46 mm Step up ring 37 mm on 46 mm	8 619 413 344
11	Objektivkappe Lens cap	8 619 403 042

MA-73 Platine
MA-73 Board

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
D 401	MA 8082-M	8 925 405 509

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
J 904		8 619 413 343



Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 401	2 SA 1576-R	8 945 705 938
Q 402	2 SC 4177	8 925 705 375
Q 403	2 SC 4081-R	8 945 705 936
Q 404	2 SC 4177	8 925 705 375
Q 405	2 SC 4177	8 925 705 375
Q 481	2 SC 4081-R	8 945 705 936

SW-161 Platine
SW-161 Board

8 619 423 926

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
S 762		8 619 521 235

EL-11 Platine
EL-11 Board

8 619 423 927

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Erdungsfeder Plate ground	8 619 413 342

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
D 941	MA 8082-M	8 925 405 509
D 942	RD 12 M-B 2	8 945 421 446
D 943	MA 110	8 945 405 811

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
J 902	1-polig	8 619 521 654

VF-40 Platine
VF-40 Board

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Halter Holder	8 619 413 199

Position Position	Bezeichnung Designation			Bestell-Nr. Part no.
C 961	0,001	µF	50 V	8 952 299 005
C 962	1,5	nF	50 V	8 952 299 001
C 963	4,7	nF	50 V	8 952 299 000

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
D 951	TLS 221	8 925 405 512
D 952	TLR 214	8 925 405 513
D 953	MA 152 WA	8 925 405 500
IC 951	AN 2512 S	8 925 900 528
L 953		8 619 413 340
Q 953	2 SA 1163 G	8 925 705 164
Q 954	2 SC 1623-L 7	8 925 705 329
Q 955	2 SD 1615 A-GP	8 925 705 165
RV 951	47 kΩ	8 941 599 755
RV 952	470 Ω	8 921 500 205
RV 953	2,2 kΩ	8 941 599 759
RV 954	1 MΩ	8 921 500 201
T 951		8 619 413 341
TH 951		8 940 599 683
W 951	Bildröhrenfassung Pict. tube socket	8 619 521 649

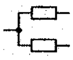
DD-30 Platine DD-30 Board 8 619 423 929

VS-72 Platine VS-72 Board

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
1	Erdungsfeder Plate (L), Ground	8 619 413 197
2	Erdungsfeder Plate (R), Ground	8 619 413 198
CN 101	15-polig	8 619 521 666
CN 201	10-polig	8 619 413 331
CN 501	9-polig	8 619 413 332
CN 601	6-polig	8 619 413 333
CN 602	14-polig	8 619 413 334
D 201	MA 110	8 945 405 811
D 211	1 SS 283	8 945 405 606
D 213	MA 141 WK	8 945 405 817
D 214	MA 141 WK	8 945 405 817
D 215	1 SS 226	8 945 406 159
D 216	MA 110	8 945 405 811
D 217	MA 110	8 945 405 811
D 218	MA 110	8 945 405 811
D 601	MA 121	8 945 405 843
D 602	MA 121	8 945 405 843
D 603	MA 121	8 945 405 843
D 604	MA 121	8 945 405 843
D 605	MA 110	8 945 405 811
D 606	MA 110	8 945 405 811
D 681	MA 110	8 945 405 811
FL 201		8 619 531 016
FL 202		8 619 531 018
FL 203		8 619 531 000
IC 101	CXA 1202 R	8 945 902 721
IC 102	CXA 1202 R	8 945 902 721
IC 201	CXA 1201 Q	8 945 902 723
IC 202	CXL 1502 M	8 925 900 551
IC 203	CXA 1200 BQ	8 945 903 106
IC 204	CXA 1203 N	8 945 902 724
IC 205	MC 14094 BF	8 925 900 595
IC 501	CXA 8006 M	8 925 900 578
IC 502	CXA 8010 M	8 925 900 577
IC 504	CXA 1127 AM	8 925 900 596
IC 505	CXA 1204 Q	8 945 902 716
IC 601	CXP 80116-690 Q	8 925 900 597
IC 602	S-81350 AG-REG	8 925 900 598
IC 603	TL 7757	8 925 900 599
IC 604	UPC 324 G 2	8 945 901 937
IC 605	MPC 1710 AM	8 925 900 630
IC 607	UPC 393 G 2	8 945 902 120
PS 601	400 mA	8 619 581 003
PS 602	800 mA	8 619 581 001
Q 101	2 SC 4213-8	8 925 705 380
Q 102	2 SC 4213-8	8 925 705 380
Q 103	2 SA 1611-M 6	8 945 706 099

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 104	2 SA 1611-M 6	8 945 706 099
Q 105	2 SC 4213-8	8 925 705 380
Q 106	2 SC 4213-8	8 925 705 380
Q 107	2 SA 1611-M 6	8 945 706 099
Q 108	2 SA 1611-M6	8 945 706 099
Q 109	UN 5213	8 945 705 659
Q 161	UN 5113	8 945 705 672
Q 162	2 SC 4177	8 925 705 375
Q 164	UN 5213	8 945 705 659
Q 165	UN 5213	8 945 705 659
Q 166	UN 5213	8 945 705 659
Q 167	UN 5213	8 945 705 659
Q 191	2 SA 1611-M 6	8 945 706 099
Q 193	2 SA 1162	8 925 705 155
Q 201	2 SB 798-DL	8 925 705 172
Q 202	2 SA 1611-M 5 M 6	8 925 705 381
Q 203	2 SA 1611-M 5 M 6	8 925 705 381
Q 204	UN 5213	8 945 705 659
Q 205	2 SA 1611-M 5 M 6	8 925 705 381
Q 206	DTC 114 EU	8 945 705 944
Q 207	FP 1 A 3 M	8 925 705 382
Q 208	2 SC 2223-F 13	8 925 705 174
Q 209	UN 5213	8 945 705 659
Q 211	DTC 124 EUT 106	8 945 706 111
Q 212	2 SA 1611-M 5 M 6	8 925 705 381
Q 213	2 SC 4177	8 925 705 375
Q 214	2 SC 4177	8 925 705 375
Q 215	2 SA 1611-M 6	8 945 706 099
Q 216	2 SC 4177	8 925 705 375
Q 217	2SC 2223-F 13	8 925 705 174
Q 218	2 SC 4177	8 925 705 375
Q 219	2 SA 1611-M 5 M 6	8 925 705 381
Q 220	2 SC 4177	8 925 705 375
Q 221	UN 5113	8 945 705 672
Q 222	2 SC 4177	8 925 705 375
Q 223	2 SA 1611-M 5 M 6	8 925 705 381
Q 224	UN 5113	8 945 705 672
Q 225	2 SC 4177	8 925 705 375
Q 226	2 SB 1295-UL 6	8 925 705 383
Q 227	2 SA 1611-M 5 M 6	8 925 705 381
Q 228	2 SC 4177	8 925 705 375
Q 229	DTC 144 WU	8 925 705 376
Q 230	2 SC 4177	8 925 705 375
Q 231	DTC 144 WU	8 925 705 376
Q 232	FP 1 A 3 M	8 925 705 382
Q 233	2 SC 4177	8 925 705 375
Q 234	2 SC 4177	8 925 705 375
Q 235	2 SA 1611-M 5 M 6	8 925 705 381
Q 236	2 SA 1611-M 5M 6	8 925 705 381
Q 237	2 SA 1611-M 6	8 945 706 099
Q 238	2 SC 2223-F 13	8 925 705 174
Q 239	2 SC 2223-F 13	8 925 705 174
Q 241	2 SA 1611-M 5 M 6	8 925 705 381
Q 242	UN 5213	8 945 705 659
Q 243	UN 5113	8 945 705 672
Q 244	XN 4213-TW	8 925 705 384
Q 245	2 SC 2223-F 13	8 925 705 174
Q 246	2 SC 4177	8 925 705 375
Q 247	2 SC 4177	8 925 705 375
Q 248	UN 5113	8 945 705 672
Q 249	XN 4213-TW	8 925 705 384
Q 250	UN 5113	8 945 705 672
Q 251	UN 5213	8 945 705 659
Q 252	2 SC 4177	8 925 705 375
Q 253	2 SC 4177	8 925 705 375
Q 254	UN 5113	8 945 705 672
Q 255	DTC 144 TU	8 925 705 385
Q 256	UN 5213	8 945 705 659
Q 258	DTC 144 TU	8 925 705 385
Q 259	DTA 144 TU	8 925 705 386

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 260	2 SC 4177	8 925 705 375
Q 261	2 SA 1611-M 5 M 6	8 925 705 381
Q 270	2 SA 1611-M 5 M 6	8 925 705 381
Q 272	2 SA 1611-M 5 M 6	8 925 705 381
Q 501	IMT 1 US	8 925 705 387
Q 502	FC 102-TR	8 925 705 388
Q 503	FC 102-TR	8 925 705 388
Q 541	2 SA 1611-M 5 M 6	8 925 705 381
Q 542	2 SC 4177	8 925 705 375
Q 543	2 SA 1611-M 5 M 6	8 925 705 381
Q 571	IMT 1 US	8 925 705 387
Q 572	IMT 1 US	8 925 705 387
Q 573	2 SC 4177	8 925 705 375
Q 601	XN 4210	8 945 705 941
Q 602	XN 4210	8 945 705 941
Q 603	XN 4210	8 945 705 941
Q 604	XN 4210	8 945 705 941
Q 606	XN 4210	8 945 705 941
Q 607	XN 4210	8 945 705 941
Q 608	XN 4210	8 945 705 941
Q 609	XN 4210	8 945 705 941
Q 610	XN 4210	8 945 705 941
Q 611	XN 4213-TW	8 925 705 384
Q 612	UN 5113	8 945 705 672
Q 613	UN 5213	8 945 705 659
Q 614	FMS 1 FE	8 925 705 389
Q 615	FMW 2	8 945 705 945
Q 616	2 SC 4177	8 925 705 375
Q 617	FMS 1 FE	8 925 705 389
Q 618	FMS 1 FE	8 925 705 389
Q 619	DTC 114 EU	8 945 705 944
Q 620	XN 4113	8 925 705 160
Q 621	XN 4213-TW	8 925 705 384
Q 622	XN 4111	8 945 705 920
Q 623	2 SC 4177	8 925 705 375
Q 624	XN 4111	8 945 705 920
Q 643	XN 4210	8 945 705 941
Q 644	UN 5113	8 945 705 672
Q 645	UN 5213	8 945 705 659
Q 661	2 SC 4177	8 925 705 375
Q 662	2 SA 1611-M 5 M 6	8 925 705 381
Q 663	2 SC 4177	8 925 705 375
Q 664	2 SA 1611-M 5M 6	8 925 705 381
Q 665	2 SC 4177	8 925 705 375
Q 681	2 SC 4177	8 925 705 375
Q 682	2 SB 1202 FAS	8 925 705 390
Q 683	FMG 4	8 925 705 156
Q 684	FMS 1 FE	8 925 705 389



RB 101	4,7 kΩ	8 940 890 211
RB 102	4,7 kΩ	8 940 890 211
RB 107	4,7 kΩ	8 940 890 211
RB 108	4,7 kΩ	8 940 890 211
RB 201	10 kΩ	8 940 890 212
RB 204	470 Ω	8 940 890 213
RB 206	560 Ω	8 940 890 214
RB 207	100 kΩ	8 940 890 215
RB 208	1 kΩ	8 940 890 216
RB 209	4,7 kΩ	8 940 890 211
RB 502	10 kΩ	8 940 890 212
RB 541	470 Ω	8 940 890 213
RB 542	3,3 kΩ	8 940 890 217
RB 543	3,3 kΩ	8 940 890 217
RB 601	100 kΩ	8 940 890 215
RB 602	100 kΩ	8 940 890 215
RB 603	100 kΩ	8 940 890 215

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
RB 604	100 kΩ	8 940 890 215
RB 605	100 kΩ	8 940 890 215
RB 606	100 kΩ	8 940 890 215
RB 607	100 kΩ	8 940 890 215
RB 608	100 kΩ	8 940 890 215
RB 609	100 kΩ	8 940 890 215
RB 610	10 kΩ	8 940 890 212
RB 611	10 kΩ	8 940 890 212
RB 612	10 kΩ	8 940 890 212
RB 614	10 kΩ	8 940 890 212
RB 615	100 kΩ	8 940 890 215
RB 616	10 kΩ	8 940 890 212
RB 617	39 kΩ	8 940 890 218
RB 618	47 kΩ	8 940 890 222
RB 619	10 kΩ	8 940 890 212
RB 620	470 Ω	8 940 890 213
RB 621	470 Ω	8 940 890 213
RB 661	10 kΩ	8 940 890 212
RB 662	330 kΩ	8 940 890 219
RB 682	10 kΩ	8 940 890 212

RV 101	4,7 kΩ	8 941 599 757
RV 102	4,7 kΩ	8 941 599 757
RV 103	4,7 kΩ	8 941 599 757
RV 104	4,7 kΩ	8 941 599 757
RV 111	47 kΩ	8 941 599 755
RV 112	47 kΩ	8 941 599 755
RV 113	47 kΩ	8 941 599 755
RV 114	47 kΩ	8 941 599 755
RV 201	47 kΩ	8 941 599 755
RV 202	1 kΩ	8 941 599 760
RV 203	2,2 kΩ	8 941 599 759
RV 204	4,7 kΩ	8 941 599 757
RV 205	2,2 kΩ	8 941 599 759
RV 206	47 kΩ	8 941 599 755
RV 207	10 kΩ	8 941 599 756
RV 208	470 Ω	8 921 500 205
RV 209	1 kΩ	8 941 599 760
RV 210	470 Ω	8 921 500 205
RV 212	4,7 kΩ	8 941 599 757
RV 213	10 kΩ	8 941 599 756
RV 502	470 kΩ	8 941 599 758
RV 602	47 kΩ	8 941 599 755

X 201	4,43 MHz	8 946 193 265
X 501	5,85938 MHz	8 946 193 349
X 601	16 MHz	8 946 193 350

FP-330 Flexible Platine
FP-330 Flexible Board

8 619 423 932

FP-184 Flexible Platine
FP-184 Flexible Board

8 619 423 933

FP-182 Flexible Platine
FP-182 Flexible Board

8 619 423 934

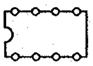
Position Position	Bezeichnung Designation	Bestell-Nr. Part no.

VC-84 Platine
VC-84 Board

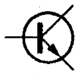
CT 141	30 pF	8 923 910 528
CT 142	30 pF	8 923 910 525

D 101	MA 110	8 945 405 811
D 102	MA 110	8 945 405 811
D 131	MA 141 WA	8 945 405 814
D 132	MA 110	8 945 405 811
D 141	1 T 32	8 945 406 179
D 142	1 T 32	8 945 406 179
D 301	MA 110	8 945 405 811
D 361	MA 141 WA	8 945 405 814
D 362	MA 110	8 945 405 811
D 561	MA 111	8 925 405 510
D 562	MA 729	8 925 405 511
D 563	MA 110	8 945 405 811
D 564	MA 110	8 945 405 811
D 565	MA 110	8 945 405 811
D 611	MA 141 WA	8 945 405 814

FL 181		8 619 531 031
FL 182		8 619 531 032
FL 303		8 619 531 028
FL 501		8 619 413 336
FL 502		8 619 413 337
FL 503		8 619 413 338
FL 504		8 619 413 339
FL 610		8 619 531 029



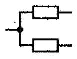
IC 141	CXD 2109 Q	8 925 900 631
IC 181	CXA 1338 R	8 925 900 632
IC 182	CXL 1503 N	8 925 900 645
IC 183	CXL 5504 M	8 925 900 634
IC 251	CXA 1339 R	8 925 900 536
IC 252	MB 88341 PFV	8 925 900 538
IC 253	CXA 1393 AN	8 925 900 590
IC 301	CXA 1072 R	8 925 900 537
IC 302	MB 88341 PFV	8 925 900 538
IC 361	MC 68 HC 05 N 4 - SC 406667	8 925 900 635
IC 362	S-8054 ALB-LM-S	8 945 902 714
IC 363	UPD 4066 BG	8 945 900 498
IC 364	UPC 324 G 2	8 945 901 937
IC 501	UPC 1037 GR	8 925 900 637
IC 502	UPC 1037 GR	8 925 900 637
IC 503	CXA 1047 M-T 5	8 925 900 638
IC 561	UPD 7503 GF-J 51-3 B 8	8 925 900 639
IC 610	CXD 1172 AM	8 925 900 575
IC 611	MB 88346 PFV	8 925 900 640
IC 612	CXD 1204 R	8 925 900 539
IC 613	MC 68 HC 05 C 4 FU-SC 411534	8 925 900 641
IC 615	UPC 358 G 2	8 945 900 886
IC 616	SC 14S66 F	8 925 900 570



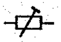
Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 101	IMZ 1 T 108	8 925 705 391
Q 102	IMZ 1 T 108	8 925 705 391
Q 106	2 SA 1602	8 925 705 379
Q 107	IMZ 1 T 108	8 925 705 391
Q 111	IMZ 1 T 108	8 925 705 391
Q 112	IMZ 1 T 108	8 925 705 391
Q 113	DTA 144 TU	8 925 705 386
Q 131	XN 1216	8 925 705 337
Q 132	2 SC 4177	8 925 705 375
Q 135	XN 1401	8 945 705 721
Q 141	2 SC 4177	8 925 705 375
Q 142	2 SC 4177	8 925 705 375
Q 181	2 SC 4177	8 925 705 375
Q 182	XN 6401	8 945 705 927
Q 183	2 SA 1602	8 925 705 379
Q 184	2 SC 4177	8 925 705 375
Q 185	XN 1216	8 925 705 37
Q 186	2 SA 1602	8 925 705 379
Q 187	2 SA 1602	8 925 705 379
Q 188	2 SC 4177	8 925 705 375
Q 189	2 SA 1602	8 925 705 379
Q 190	2 SC 4177	8 925 705 375
Q 191	XN 6401	8 945 705 927
Q 192	XN 6401	8 945 705 927
Q 193	XN 6401	8 945 705 927
Q 194	2 SA 1602	8 925 705 379
Q 195	2 SA 1602	8 925 705 379
Q 196	2 SC 4177	8 925 705 375
Q 255	IMZ 1 T 108	8 925 705 391
Q 256	DTC 144 EU	8 945 705 942
Q 257	IMZ 1 T 108	8 925 705 391
Q 302	2 SA 1602	8 925 705 379
Q 303	2 SA 1602	8 925 705 379
Q 304	2 SC 4177	8 925 705 375
Q 305	2 SC 4177	8 925 705 375
Q 307	XN 4501	8 945 705 894
Q 309	2 SA 1602	8 925 705 379
Q 312	2 SC 4177	8 925 705 375
Q 361	XN 1213	8 945 705 669
Q 362	XN 6215	8 925 705 392
Q 363	2 SC 4177	8 925 705 375
Q 364	XN 6215	8 925 705 392
Q 365	XN 6401	8 945 705 927
Q 367	2 SC 4177	8 925 705 375
Q 368	XN 6215	8 925 705 392
Q 501	2 SC 4177	8 925 705 375
Q 502	2 SC 4177	8 925 705 375
Q 503	2 SA 1602	8 925 705 379
Q 504	2 SC 4177	8 925 705 375
Q 505	2 SC 2223-F 13	8 925 705 174
Q 508	2 SC 4177	8 925 705 375
Q 509	2 SA 1602	8 925 705 379
Q 561	2 SA 1602	8 925 705 379
Q 563	DTC 144 EU	8 945 705 942
Q 564	DTC 144 TU	8 925 705 385
Q 565	XN 6401	8 945 705 927
Q 566	XN 6501	8 945 705 668
Q 567	XN 6401	8 945 705 927
Q 568	2 SK 94	8 925 705 348
Q 569	2 SA 1602	8 925 705 379
Q 570	DTC 144 WU	8 925 705 376
Q 572	2 SB 1121	8 945 705 935
Q 573	DTC 144 EU	8 945 705 942
Q 610	XN 6215	8 925 705 392
Q 612	DTC 144 TU	8 925 705 385
Q 613	2 SC 4177	8 925 705 375
Q 614	2 SC 4177	8 925 705 375

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
Q 619	2 SC 4177	8 925 705 375
Q 620	2 SC 4177	8 925 705 375
Q 621	XN 6501	8 945 705 668

Position	Bezeichnung	Bestell-Nr.
R 574	100 Ω 0,6 W	8 940 599 693



Position	Bezeichnung	Bestell-Nr.
RB 101	10 kΩ	8 940 890 212
RB 141	2,2 kΩ	8 940 890 220
RB 181	1,5 kΩ	8 940 890 221
RB 182	1 kΩ	8 940 890 216
RB 183	4,7 kΩ	8 940 890 211
RB 184	4,7 kΩ	8 940 890 211
RB 252	560 Ω	8 940 890 214
RB 253	560 Ω	8 940 890 214
RB 301	1 kΩ	8 940 890 216
RB 362	100 kΩ	8 940 890 215
RB 363	10 kΩ	8 940 890 212
RB 561	100 kΩ	8 940 890 215
RB 562	100 kΩ	8 940 890 215
RB 563	1 kΩ	8 940 890 216
RB 564	100 kΩ	8 940 890 215
RB 565	100 kΩ	8 940 890 215
RB 566	100 kΩ	8 940 890 215
RB 567	1 kΩ	8 940 890 216
RB 569	1 kΩ	8 940 890 216
RB 570	47 kΩ	8 940 890 222
RB 574	100 kΩ	8 940 890 215
RB 575	100 kΩ	8 940 890 215
RB 576	10 kΩ	8 940 890 212
RB 577	10 kΩ	8 940 890 212
RB 611	10 kΩ	8 940 890 212
RB 613	100 kΩ	8 940 890 215
RB 614	100 kΩ	8 940 890 215



Position	Bezeichnung	Bestell-Nr.
RV 501	4,7 kΩ	8 941 599 757
RV 502	4,7 kΩ	8 941 599 757
RV 503	2,2 kΩ	8 941 599 759
RV 504	1 kΩ	8 941 599 760
RV 505	1 kΩ	8 941 599 760
RV 561	100 kΩ	8 941 599 754

Position	Bezeichnung	Bestell-Nr.
X 101	28 MHz	8 946 193 341
X 141	17,7 MHz	8 946 193 271
X 361	4 MHz	8 946 193 267
X 561	32,768 KHz	8.946 193 351

DT-77 K Platine
DT-77 K Board **8 619 423 936**

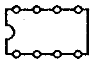
FP-362 Flexible Platine
FP-362 Flexible Board **8 619 423 937**

FP-331 Flexible Platine
FP-331 Flexible Board **8 619 423 938**

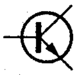
TI-31 Platine
TI-31 Board

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
CT 801	30 pF	8 923 910 525
CT 802	30 pF	8 923 910 525

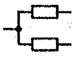
D 801	1 T 33 C-01	8 945 406 180



IC 801	MB 8464 A-15 LLPF-EL	8 925 900 589
IC 802	UPD 6145 G-621	8 925 900 643
IC 803	MB 670479 U	8 925 900 644



Q 801	DTC 144 EU	8 945 705 942
Q 802	XN 4210	8 945 705 941

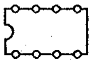


RB 801	10 kΩ	8 940 890 212
RB 802	10 kΩ	8 940 890 212
RB 804	10 kΩ	8 940 890 212

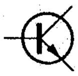
LD-36 Platine
LD-36 Board

CN 702	8-polig	8 619 413 335

D 701	MA 110	8 945 405 811



IC 701	MPC 1737 M	8 925 900 571
IC 702	UPC 358 G 2	8 945 900 886
IC 703	RC 3414 M	8 925 900 543



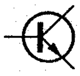
Q 701	DTC 144 WU	8 925 705 376
Q 702	IMT 1 US	8 925 705 387
Q 703	DTC 124 EUT 106	8 945 706 111
Q 704	2 SA 1602	8 925 705 379
Q 706	2 SB 1121	8 945 705 935
Q 707	2 SC 4177	8 925 705 375

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
RV 701	220 kΩ	8 921 500 207

CD-48 Platine
CD-48 Board

8 619 423 941

W 901	FP-333 Flexible Platine FP-333 Flexible Board	8 619 423 946

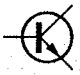


Q 901	2 SK 300-3	8 925 705 168

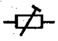
PD-18 Platine
PD-18 Board

D 201	1 SS 226	8 945 406 159

FL 201		8 619 531 017
FL 202		8 619 413 196



Q 201	2 SC 1623	8 945 705 933
Q 202	2 SC 1623	8 945 705 933
Q 203	2 SC 1623	8 945 705 933
Q 204	2 SC 1623	8 945 705 933
Q 205	2 SC 1623	8 945 705 933
Q 206	2 SC 1623	8 945 705 933
Q 207	2 SC 1623	8 945 705 933
Q 208	2 SC 1623	8 945 705 933



RV 201	4,7 kΩ	8 941 599 757

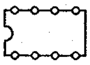
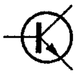
FP-149 Flexible Platine
FP-149 Flexible Board

8 619 423 943

FP-115 Flexible Platine
FP-115 Flexible Board

8 619 423 944

1	Halter Holder	8 619 413 009
2	Halter Holder	8 619 413 008
3	Halter Holder	8 619 413 195

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
D 991	GL 453	8 945 406 178
		
H 991		8 925 900 587
H 992		8 925 900 587
		
Q 991	PT 4850 F	8 925 705 349
Q 992	PT 4850 F	8 925 705 349
S 991		8 619 521 229
S 992		8 619 413 051
	FP-114 Flexible Platine **FP-114 Flexible Board**	**8 619 423 945**
29	Adapter Adaptor	8 619 413 344
PS 901	1600 mA	8 619 581 004
PS 902	1600 mA	8 619 581 004
PS 903	1600 mA	8 619 581 004
	CF-0 Platine **CF-0 Board**	
Schaltereinheit Switch block		8 619 403 049
	FK-0 Platine **FK-0 Board**	
Schaltereinheit Switch block		8 619 501 180

Hinweis:
Handelsübliche Kondensatoren und Widerstände sind in der Ersatzteilliste nicht aufgeführt. Wir bitten Sie, diese Teile im Fachhandel zu beziehen.

Note:
Capacitors and resistors usual in trade are not mentioned in the spare parts list. Kindly buy these parts from the specialized trade.

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.

Notizen/Notes

● BLAUPUNKT
Bosch Telecom

Netzadapter / AC Power Adaptor
PC - 77 7 618 796

Kundendienstschrift • Service Manual

Ⓓ Btx ✶ 30 39 68 #

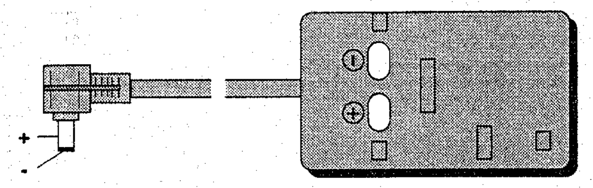
Technische Daten

Netzanschluß:	100-240 V, 50/60 Hz
Leistungsaufnahme:	ca. 20 W
Ausgangsspannung:	7,5 V / 1,6 A (Betrieb) 10 V / 1,3 A (Aufladen des Akkus)
Masse:	ca. 310 g
Abmessungen:	67 (B) x 39 (H) x 138 (T) mm
Anschlußkabel:	

Specifications

Power source:	100-240 V, 50/60 Hz
Power consumption:	approx. 20 W
DC out:	7.5 V / 1.6 A (Operation mode) 10 V / 1.3 A (Battery pack charging)
Weight:	approx. 310 g
Dimensions:	67 (W) x 39 (H) x 138 (D)mm
Connection cable:	

1 Stück Verbindungskabel (Platte) / 1pc Connecting cord (plate)



Dieser Netzadapter PC-77 versorgt die PTV 8-77, PTV 8-100, CCR-800, CCR-850 und dient außerdem zum Laden der entsprechenden Akkus.

This AC power adaptor PC-77 supplies the PTV 8-77, PTV 8-100, CCR-800, CCR-850 and also serves for charging the corresponding battery pack.

Zerlegungshinweise

1. Die zwei Schrauben im Boden des Gehäuses herausdrehen. Die Bodenschale abnehmen.
2. Die Netzteilplatte mit dem Blechrahmen etwas anheben und vorsichtig von der Ladekontrollplatte (kleine Leiterplatte an der Stirnseite) abziehen.
3. Die zwei Schrauben am Blechrahmen herausdrehen. Den Rahmen und die Kunststoffabdeckung abnehmen.

Notes on Disassembly

1. Unscrew the two screws from the cabinet bottom. Remove the bottom panel.
2. Lift the power control board slightly and remove it cautiously from the charging control board (small PCB provided at the front).
3. Unscrew the two screws from the metal frame. Remove the frame and the plastic cover.

Einstellhinweise

Bei allen Einstell- und Reparaturarbeiten sind die VDE- Vorschriften zu beachten.

Zur Einstellung der Ausgangsspannung und des Ladestromes sind die Netzteilplatte und die Ladekontrollplatte wieder zu verbinden. Es empfiehlt sich, die Platten mit einem 8 pol. Kabel am Stecker (CN 201) und an der Steckerwanne zu verbinden.

Achtung! Die Netzteilplatte führt 220V Wechselspannung.

Einstellen der Ausgangsspannung.

1. Das Digitalvoltmeter an die Netzteilplatte am Stecker CN 201 Pin 7 und Masse anschließen.
2. Mit dem Einstellregler RV 202 die Spannung auf 7,3 ± 0,1 V einstellen.
3. Den Schalter SW 251 einschalten (orange LED leuchtet). Die Spannung an Pin 7 muß 10,6 ± 0,1 V betragen.

Einstellen des Ladestromes

1. Die rote Kabelverbindung (+) zwischen der Ladekontrollplatte und dem Ladeanschluß auftrennen. Ein Ampermeter (Meßbereich 1,5 A) dazwischen anschließen.
2. Einen entladenen Akku in den Netzadaptor einsetzen. Der Schalter SW 251 muß dabei automatisch einschalten (orange LED leuchtet).
3. Mit dem Einstellregler RV 201 den Ladestrom auf 1,2 ± 0,1 A einstellen.

Notes on Alignment

In case of any alignments or repairs, the VDE regulations must be observed.

To align the output voltage and the charging current re-connect the power control board and the charging control board. We recommend to connect the boards to the plug (CN 201) and to the plug panel by means of an 8-conductor cable.

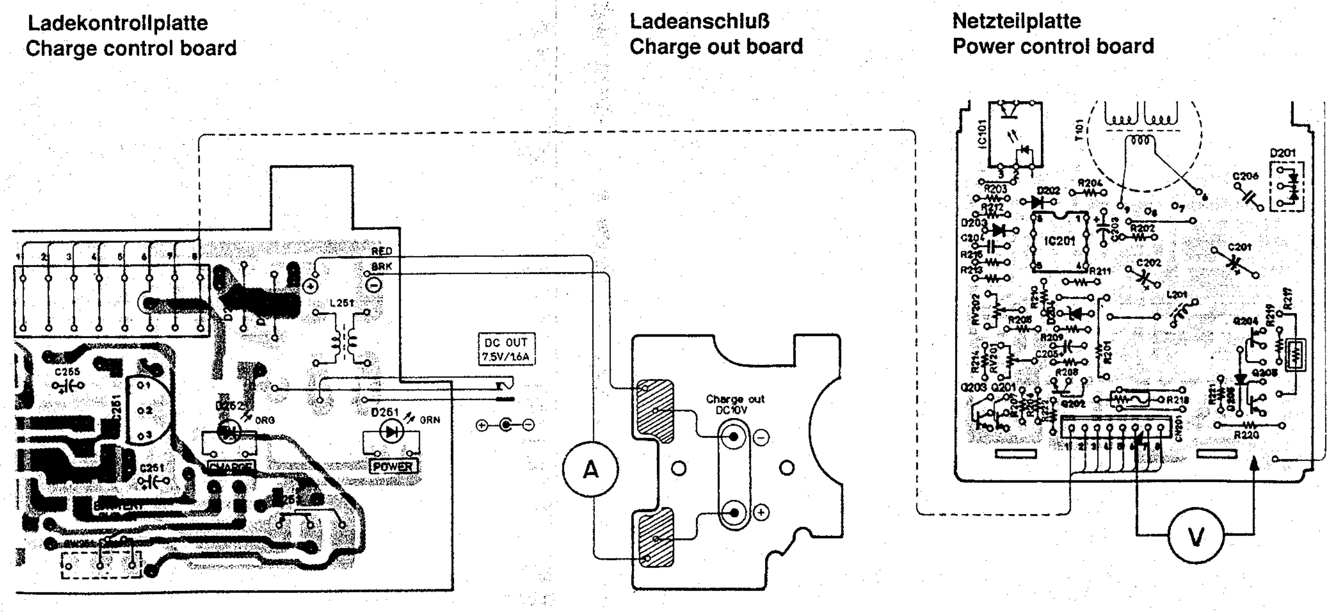
Attention! The power control board carries 220 VAC.

Adjusting the output voltage

1. Connect a digital voltmeter across ground and pin 7 of the plug CN 201 provided on the power control board.
2. Use the control element RV 202 to adjust a voltage of 7.3 ± 0.1 volts.
3. Turn on the switch SW 251 (orange LED lights up). The voltage across pin 7 must be 10.6 ± 0.1 volts.

Adjusting the charging current

1. Disconnect the charging control board (red connection) from the charging out board. Connect an amperemeter in series (measuring range 1.5 A).
2. Insert a dead battery into the AC power adaptor. The switch SW 251 then be automatically turned on (orange LED lights up).
3. Use the control element RV 201 to adjust the charging current to 1.2 ± 0.1 A.


Ladekontrollplatte
Charge control board
Ladeanschluß
Charge out board
Netzteilplatte
Power control board
1 2 3 4 5 6 7 8
RED
BRK
L251
DC OUT 7.5V/1.6A
C255
C251
D252
ORG
D251
GRN
CHARGE
POWER
BATTERY
SW251
A
Charge out DC10V
IC101
T101
D201
C206
R203
R204
D202
R272
D203
IC201
C203
R202
C201
C202
R211
RV202
R205
R209
L201
R217
R219
Q204
R214
RV201
C205
R201
R206
Q203
Q201
Q202
R218
Q205
R221
R220
CN201
V

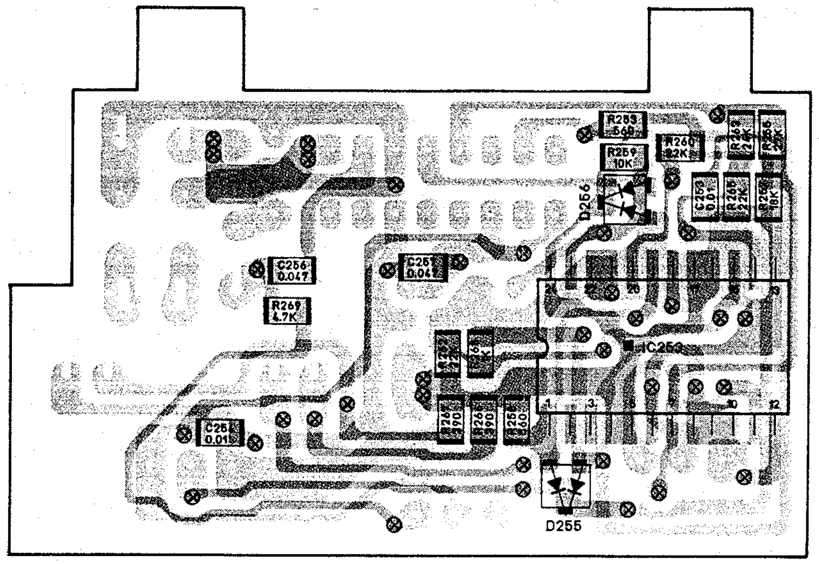
Bestückte Platten

1. Fertigungsstand

Component Boards

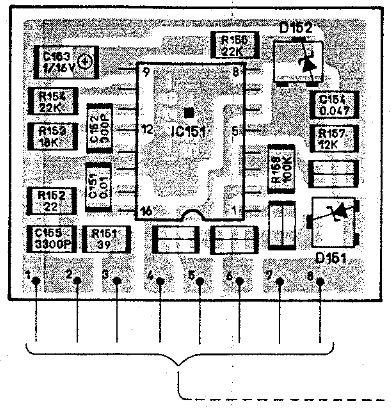
1. State of Production

CH **Ladekontrollplatte**
Charge control board

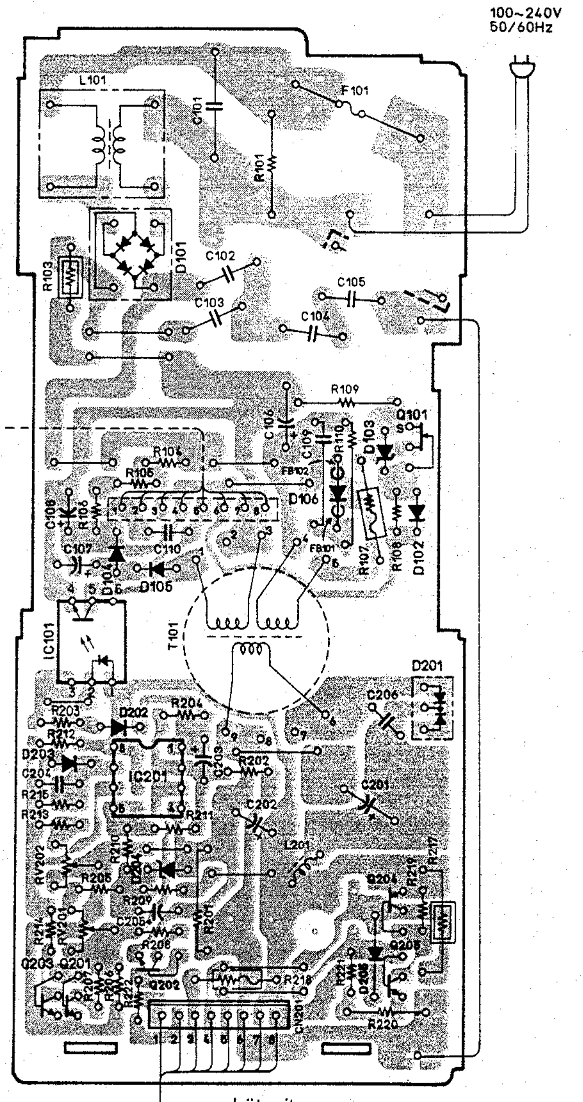

R263
R259 10K
R260 22K
D256
C259 0.01
R262
R264
C256 0.047
C261 0.047
R269 4.7K
IC253
C258 0.018
D255

Bestückungsseite
Component side

CT **Regelplatte**
Switching control board

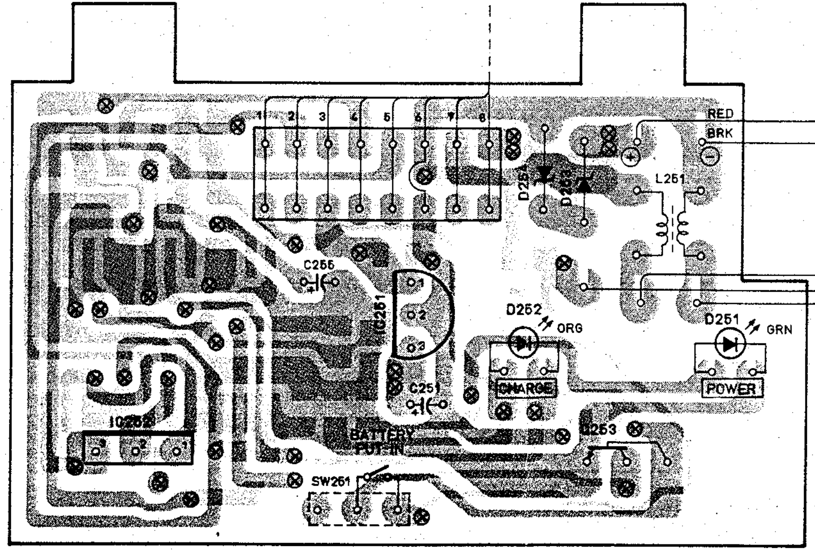

D152
R156 22K
C153 1/16V
R155 22K
R153 18K
C152 300P
IC151
C154 0.047
R157 12K
R158 10K
C151 0.01
R152 22
C155 3300P
R151 39
D151
1 2 3 4 5 6 7 8

MA **Netzteilplatte**
Power control board


AC IN
100~240V
50/60Hz
L101
C101
F101
R101
R103
D101
C102
C103
C104
C105
R109
Q101
R104
R105
R106
C106
C109
D103
C108
D104
D106
C107
C110
D105
R102
R108
D102
IC101
T101
D201
D202
R204
C206
R203
D203
IC201
R202
C202
C201
R216
R213
R211
L201
R205
R210
Q204
R217
RV202
RV201
R207
R208
R209
Q203
Q201
Q202
R218
R220
1 2 3 4 5 6 7 8

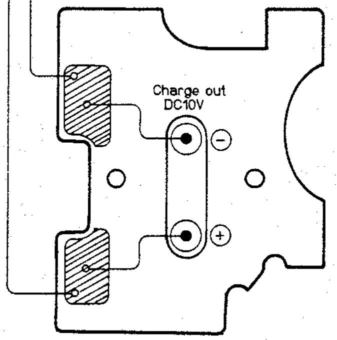
Lötseite
Conductor side

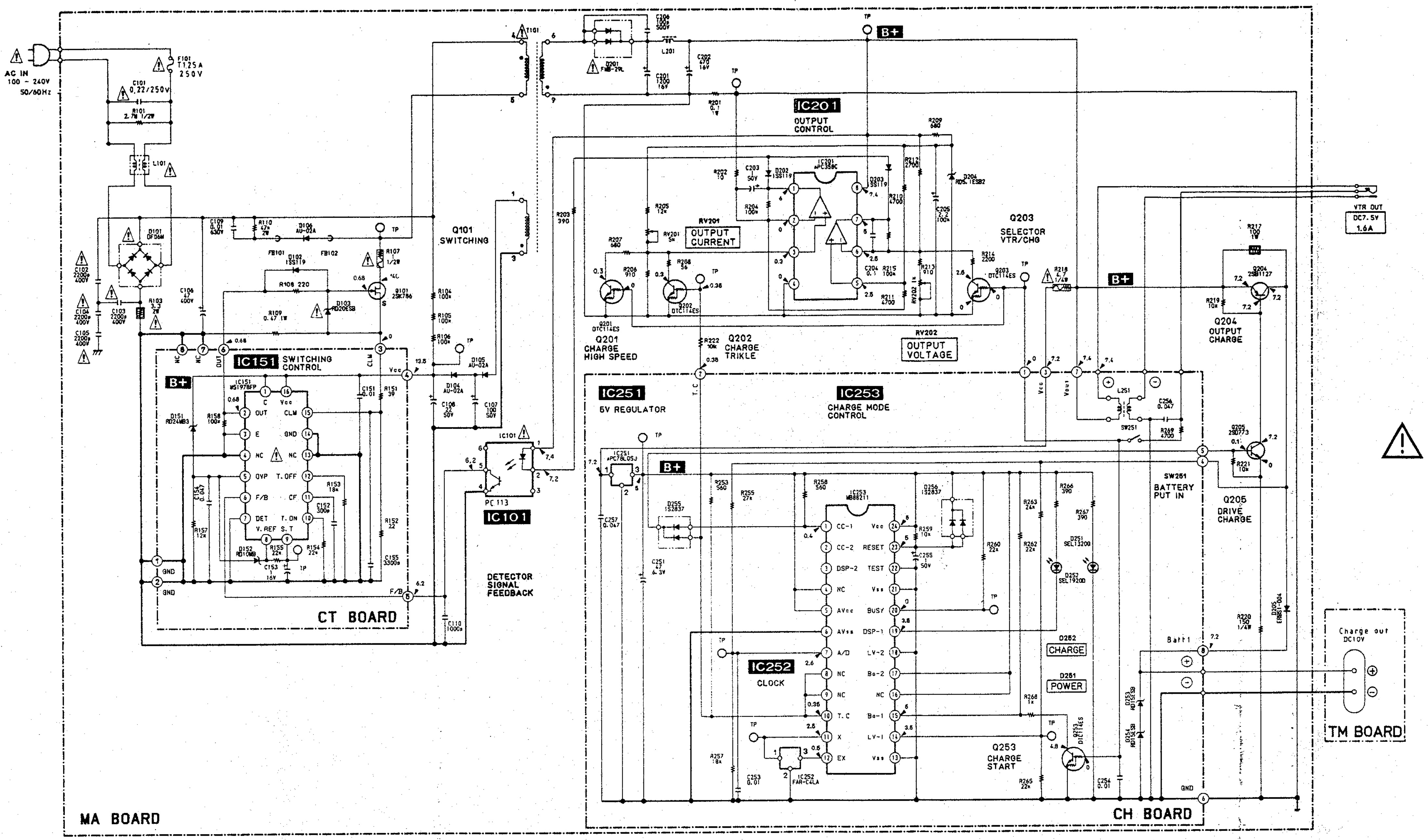
CH **Ladekontrollplatte**
Charge control board


1 2 3 4 5 6 7 8
RED
BRK
D254
D253
L251
C255
Q251
D252
ORG
D261
GRN
CHARGE
POWER
C251
IC252
BATTERY
SW261
Q253
DC OUT
7.5V/1.6A

Lötseite
Conductor side

TM **Ladeanschluß**
Charge out board


Charge out
DC10V


AC IN
100 - 240V
50/60Hz
F101 T1.25A 250V
C101 0.22/250V
R101 2.7M 1/2W
L101
D101 DF06M
T101
Q101 SWITCHING
IC151 SWITCHING CONTROL
M51978FP
B+
CT BOARD
PC113
IC101
DETECTOR SIGNAL FEEDBACK
D201 FMB-29L
L201
IC201 OUTPUT CONTROL
µPC358C
RV201 OUTPUT CURRENT
RV202 OUTPUT VOLTAGE
Q201 CHARGE HIGH SPEED
Q202 CHARGE TRIKLE
Q203 SELECTOR VTR/CHG
Q204 OUTPUT CHARGE
Q205 DRIVE CHARGE
VTR OUT DC7.5V 1.6A
IC251 5V REGULATOR
IC253 CHARGE MODE CONTROL
MB88211
IC252 CLOCK
FAR-C4LA
Q253 CHARGE START
SW251 BATTERY PUT IN
D252 CHARGE
D251 POWER
Charge out DC10V
TM BOARD
CH BOARD
MA BOARD

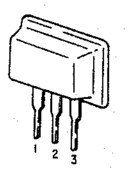
Gleichspannungen Tol. ±15% mit Digitalvoltmeter gegen Masse gemessen.
DC voltages tol. ±15% measured with digital voltmeter against ground.

⚠ Sicherheitsbauelement (muß durch Originalteil ersetzt werden).
Security component (must be replaced by original part.

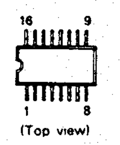
Für Werte ohne Bezeichnung µF oder Ω einsetzen.
Read µF or Ω respectively unless otherwise noted.

Halbleiteranschlüsse
Semi conductor connections

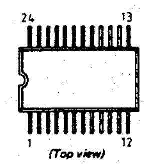
FAR-C4LA



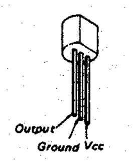
M51978FP


16
9
1
8
(Top view)

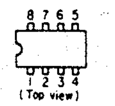
MB88211


24
13
1
12
(Top view)

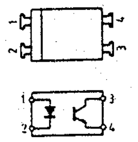
µPC78L05J


Output
Ground Vcc

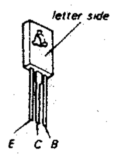
µPC358C


8 7 6 5
1 2 3 4
(Top view)

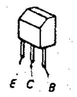
TLP621



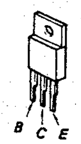
2SC1127


letter side
E C B

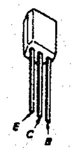
2SD773



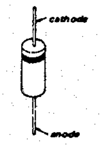
2SK786



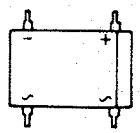
DTC114ES



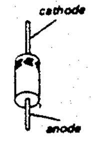
AU-02A


cathode
anode

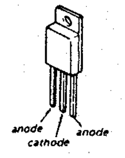
DF06M



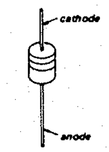
ERB81-004


cathode
anode

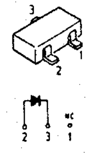
FMB-29L


anode
cathode
anode

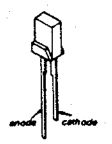
RD5.1ES-B2 RD20ESB
RD15ESD 1SS119


cathode
anode

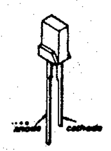
RD10MB
RD24MB3



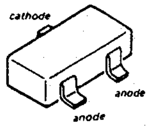
SEL1320G


anode
cathode

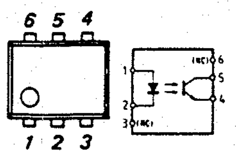
SEL1020D
SEL1320G


anode
cathode

1S2837


cathode
anode
anode

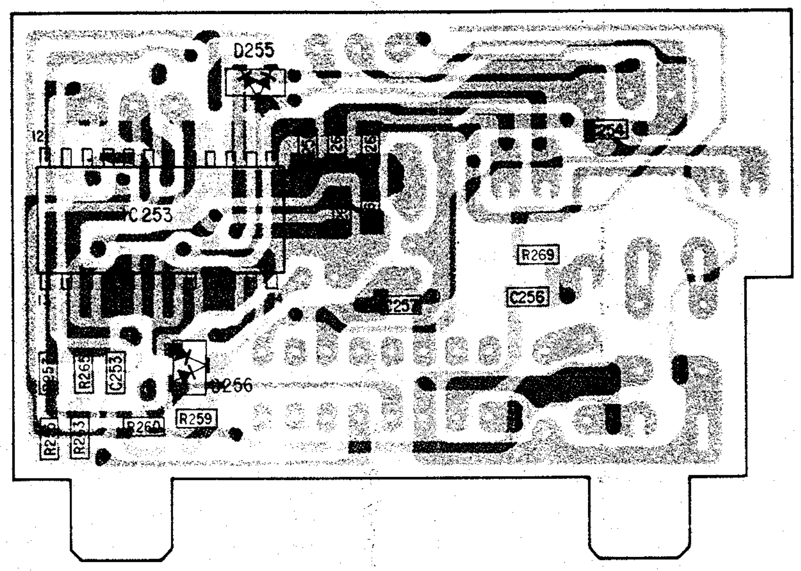
PC113


6 5 4
1 2 3
1
2
3
6
5
4

Bestückte Platten
2. Fertigungsstand

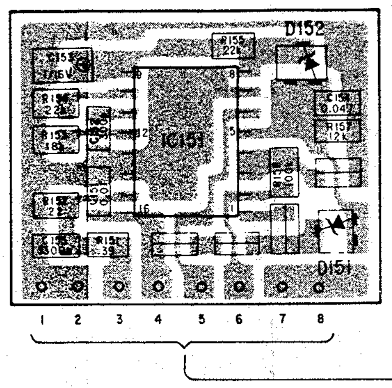
Component Boards
2. State of Production

CH Ladekontrollplatte
Charge control board

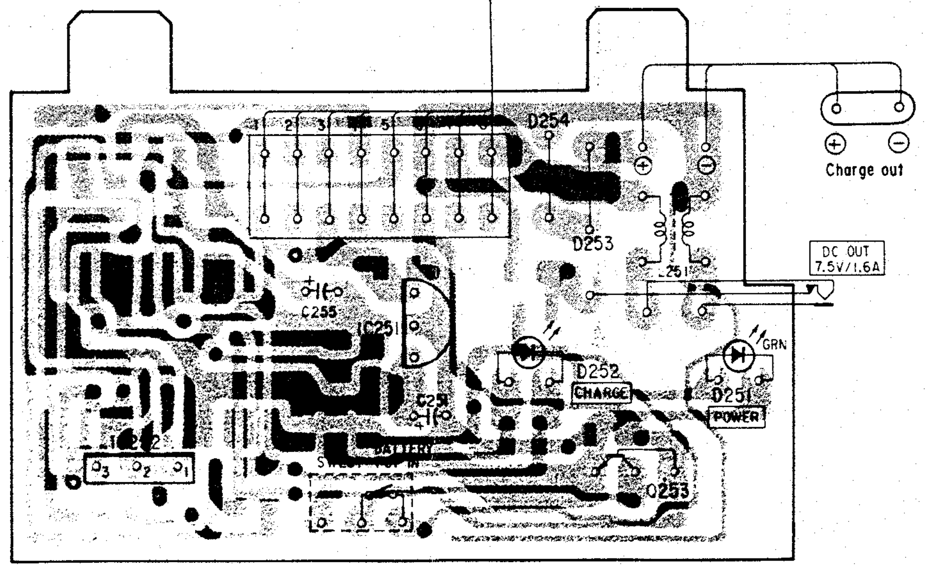

D255
C253
R269
C256
C257
D256
R259
R260
R261
R262
R263
R264
C254

Bestückungsseite
Component side

CT Regelplatte
Switching control board


D152
IC151
D151
1 2 3 4 5 6 7 8

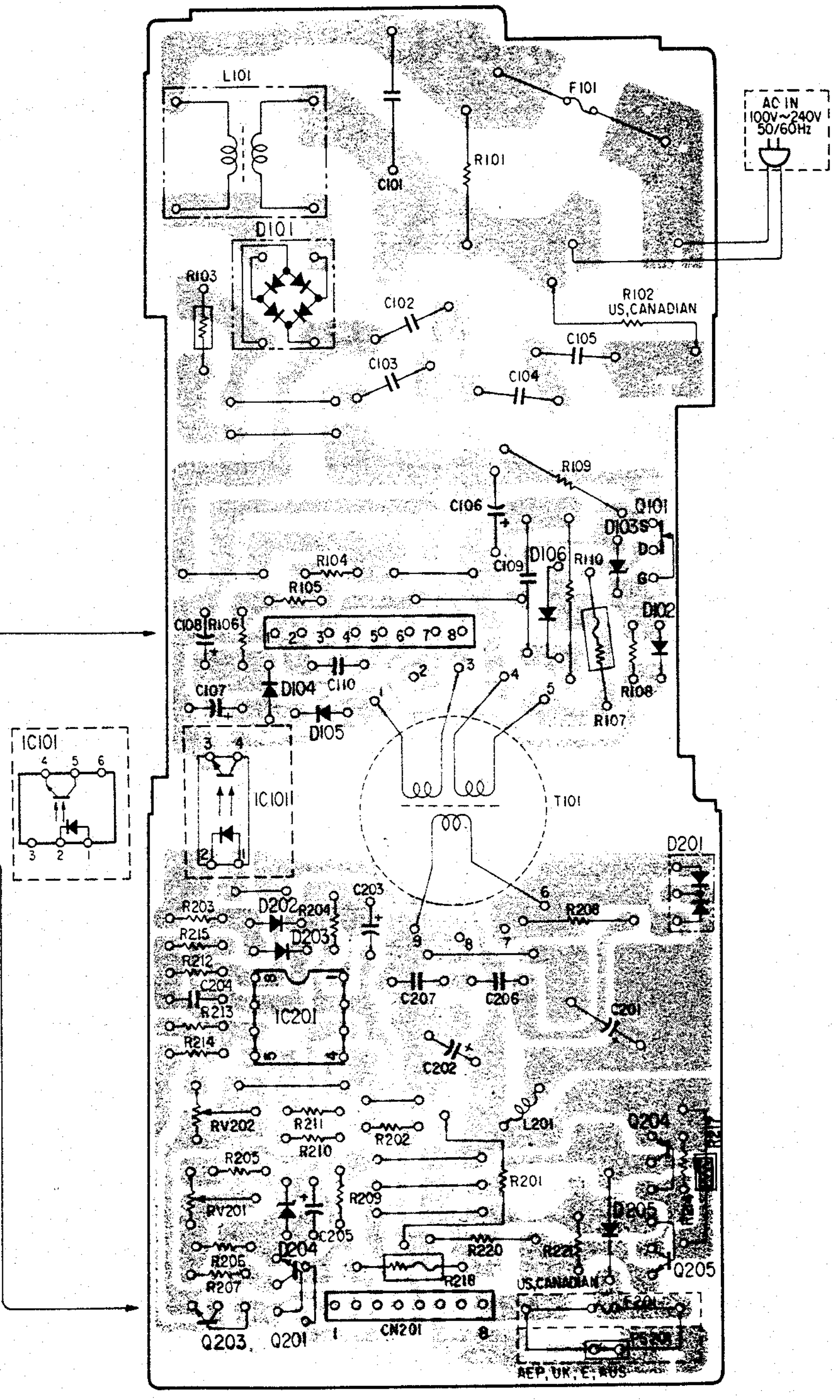
CH Ladekontrollplatte
Charge control board


D254
D253
C255
IC251
C251
D252
CHARGE
D251
POWER
GRN
Q253
BATTERY
DC OUT 7.5V/1.6A
Charge out
⊕ ⊖

TM Ladeanschluß
Charge out board

Lötseite
Conductor side

MA Netzteilplatte
Power control board


L101
C101
R101
F101
AC IN 100V~240V 50/60Hz
D101
R103
C102
R102 US,CANADIAN
C103
C105
C104
R109
C106
D101
D103
R104
C109
D106
R110
R105
D102
C108
R106
C107
D104
C110
D105
R108
R107
IC101
T101
D201
C203
R203
D202
R204
D203
R215
R212
C204
R213
IC201
C207
C206
C201
R208
R214
C202
RV202
R211
R210
R202
L201
Q204
R205
R201
RV201
R209
D205
R206
C205
R220
R221
R207
D204
R218
US,CANADIAN
Q205
Q203
Q201
CN201
REP.UK.E.AUS

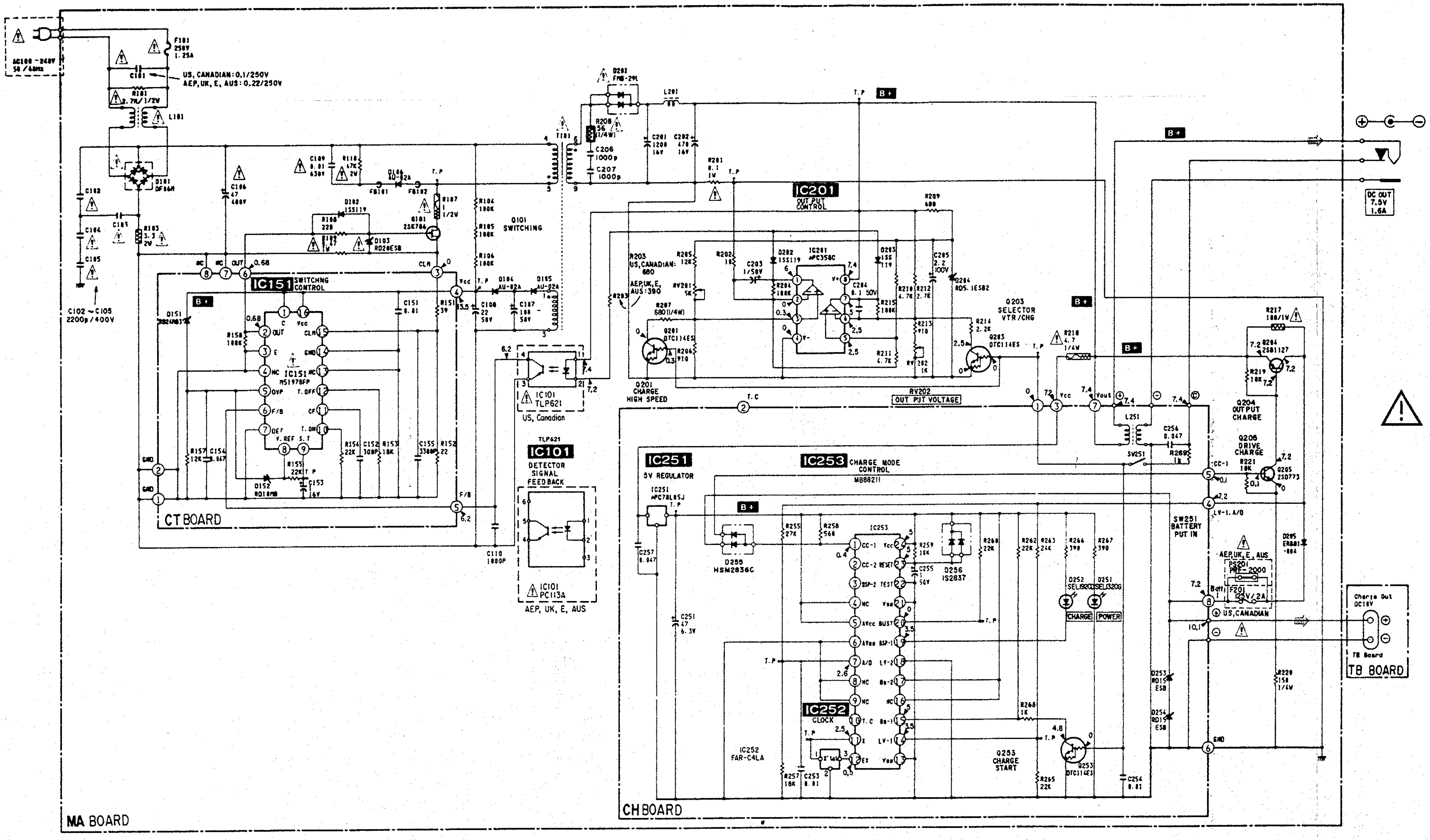
Lötseite
Conductor side

Schaltbild

2. Fertigungsstand

Schematic Diagram

2. State of Production

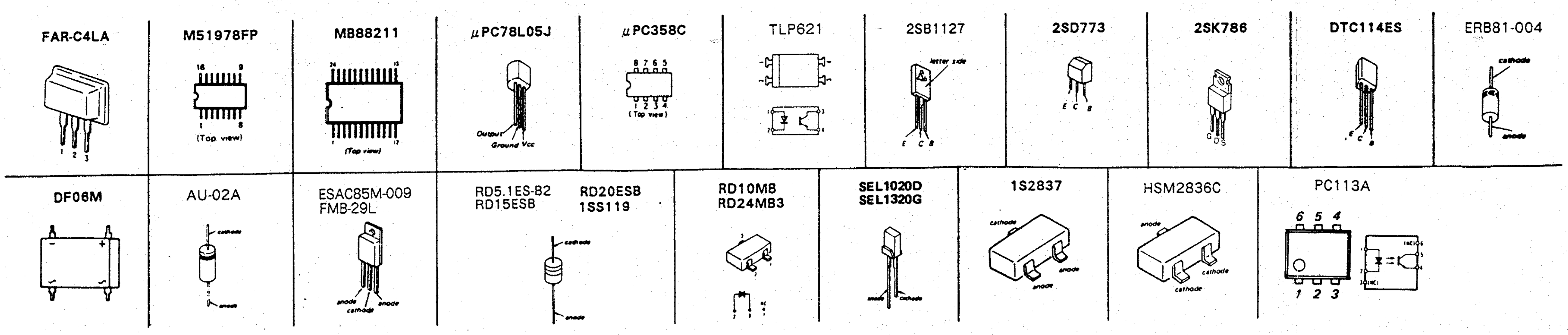

AC100 - 240V 50/60Hz
F101 250V 1.25A
C101
US, CANADIAN: 0.1/250V
AEP, UK, E, AUS: 0.22/250V
R101 2.7M/1/2W
L101
D101 DF06M
C102 ~ C105 2200p/400V
C106 47 400V
C109 0.01 630V
R110 47K 2W
D104 AU-02A
D102 1SS119
D103 RD20ESB
Q101 2SK786
Q101 SWITCHING
R107 1 1/2W
R104 100K
R105 100K
R106 100K
FB101
FB102
T101
D151 RD24MB3
IC151 SWITCHING CONTROL
IC151 M51978FP
Vcc
CLM
GND
OVP
F/B
T.OFF
DET
T.ON
V.REF
S.T
CF
R158 100K
R157 12K
C154 0.047
D152 RD10MB
R155 22K
C153 1 16V
R154 22K
C152 100P
R153 10K
C155 3300P
R152 22
C151 0.01
R151 39
C108 22 50V
C107 100 50V
D105 AU-02A
D106 AU-02A
C110 1000P
CT BOARD
IC101 TLP621
US, Canadian
TLP621
IC101 DETECTOR SIGNAL FEEDBACK
IC101 PC113A
AEP, UK, E, AUS
MA BOARD
D201 FMB-29L
R208 56 1/4W
C206 1000p
C207 1000p
L201
C201 1200 16V
C202 470 16V
R201 0.1 1W
T.P
B+
IC201 OUT PUT CONTROL
R203 US,CANADIAN: 680
AEP,UK,E, AUS: 390
R205 12K
R202 18
C203 1/50V
D202 1SS119
IC201 μPC358C
D203 1SS119
C205 2.2 100V
D204 RD5.1ESB2
R201 5K
R207 680 (1/4W)
Q201 DTC114ES
Q201 CHARGE HIGH SPEED
R209 680
R211 4.7K
RV202 OUT PUT VOLTAGE
Q203 SELECTOR VTR/CHG
Q203 DTC114ES
R214 2.2K
R218 4.7 1/4W
R217 100/1W
Q204 2SB1127
Q204 OUT PUT CHARGE
Q205 DRIVE CHARGE
Q205 2SD773
R219 10K
R221 10K
L251
C256 0.047
SW251
R269 1K
IC251 5V REGULATOR
IC251 μPC78L05J
IC253 CHARGE MODE CONTROL
MB88211
D255 HSM2836C
D256 1S2837
R255 27K
R256 56K
R259 10K
C255 1 50V
C257 0.047
C251 47 6.3V
CC-1
CC-2 RESET
BSP-2
TEST
NC
A/D
LV-1
T.C
Vcc
Vss
BUST
BSP-1
IC252 CLOCK
IC252 FAR-C4LA
R257 10K
C253 0.01
R262 22K
R263 22K
R264 390
R266 390
R267 390
R268 1K
D252 SEL1020D
D251 SEL1320G
CHARGE
POWER
Q253 CHARGE START
Q253 DTC114ES
R265 22K
C254 0.01
SW251 BATTERY PUT IN
D253 RD15ESB
D254 RD15ESB
D295 ERB81-004
AEP,UK,E,AUS
F201 PRT-2000
F201 125V/2A
US,CANADIAN
R220 150 1/4W
CH BOARD
DC OUT 7.5V 1.6A
Charge Out DC10V
TB Board
TB BOARD

Halbleiteranschlüsse
Semi conductor connections

Gleichspannungen Tol. ±15% mit Digitalvoltmeter gegen Masse gemessen.
DC voltages tol. ±15% measured with digital voltmeter against ground.

Sicherheitsbauelement (muß durch Originalteil ersetzt werden).
Security component (must be replaced by original part.

Für Werte ohne Bezeichnung μF oder Ω einsetzen.
Read μF or Ω respectively unless otherwise noted.


FAR-C4LA
1 2 3
M51978FP
16 9
1 8
(Top view)
MB88211
24 13
1 12
(Top view)
μPC78L05J
Output
Ground
Vcc
μPC358C
8 7 6 5
1 2 3 4
(Top view)
TLP621
2SB1127
letter side
E C B
2SD773
E C B
2SK786
G D S
DTC114ES
E C B
ERB81-004
cathode
anode
DF06M
AU-02A
cathode
anode
ESAC85M-009
FMB-29L
anode
cathode
anode
RD5.1ES-B2
RD15ESB
RD20ESB
1SS119
cathode
anode
RD10MB
RD24MB3
SEL1020D
SEL1320G
anode
cathode
1S2837
cathode
anode
HSM2836C
anode
cathode
PC113A
6 5 4
1 2 3

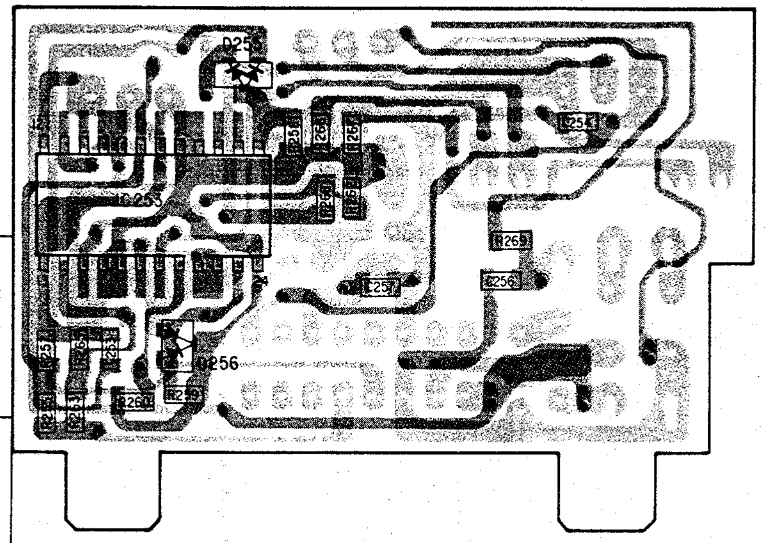
Bestückte Platten

3. Fertigungsstand

Component Boards

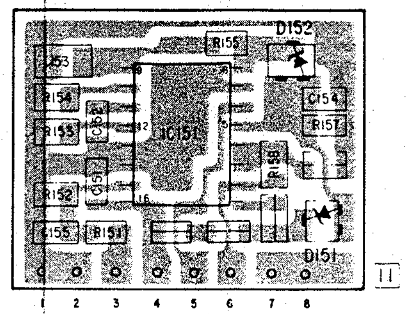
3. State of Production

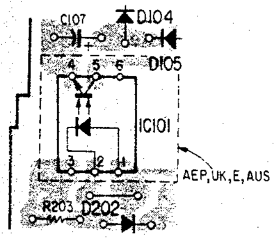
CH Ladekontrollplatte Charge control board


D258
R254
R268
IC253
R269
C256
C257
D256
R260
R259

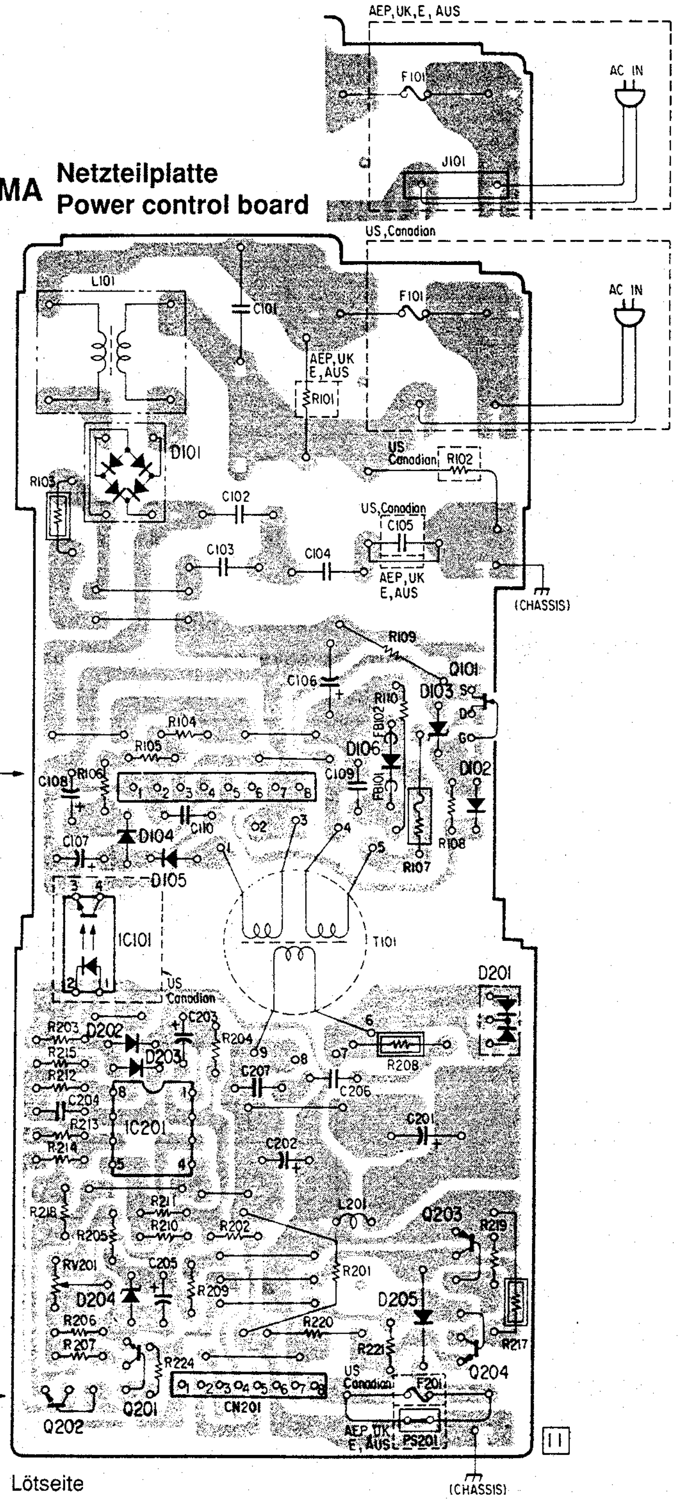
Bestückungsseite
Component side

CT Regelplatte Switching control board


R155
D152
IC151
C154
R157
R156
R158
R152
R151
R153
D151
1 2 3 4 5 6 7 8

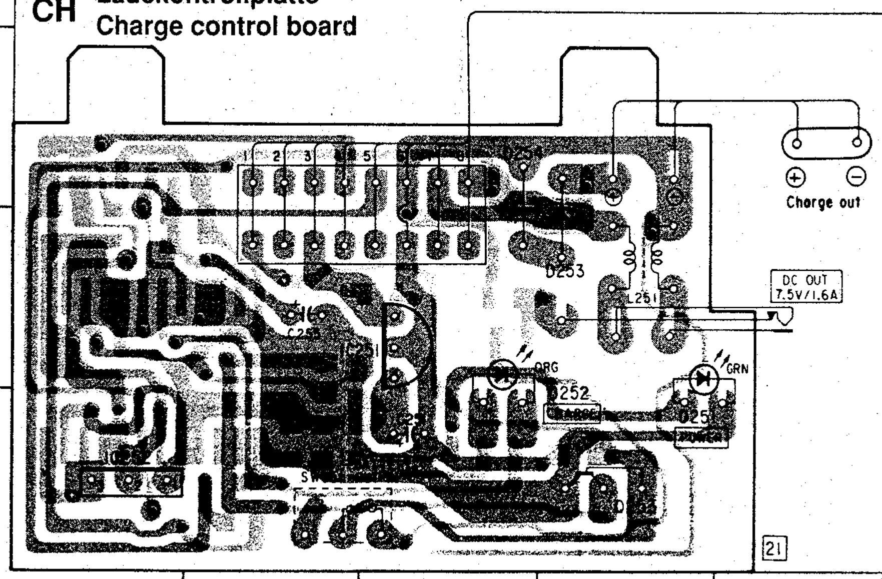

C107
D104
D105
IC101
AEP,UK,E,AUS
R203
D202

MA Netzteilplatte Power control board


AEP,UK,E,AUS
F101
AC IN
J101
US,Canadian
L101
C101
AEP,UK E,AUS
R101
D101
US Canadian
R102
R103
C102
C103
C104
US,Canadian
C105
AEP,UK E,AUS
(CHASSIS)
R109
Q101
C106
R110
D103
D106
R104
R105
R106
C108
C109
FB101
FB102
D102
C110
C107
D104
R108
R107
D105
IC101
T101
US Canadian
D201
R203
D202
C203
R204
R215
D203
R212
C207
R208
C204
C206
R213
IC201
C201
R214
C202
R216
R211
R205
R210
R202
L201
Q203
R219
RV201
C205
R209
R201
D204
R206
R220
D205
R207
R224
R221
R217
US Canadian
F201
Q204
Q202
Q201
CN201
AEP,UK E,AUS
PS201
(CHASSIS)

Lötseite
Conductor side

CH Ladekontrollplatte Charge control board


1 2 3 4 5
Charge out
DC OUT 7.5V/1.6A
D253
L251
D252
ORG
GRN
D251

A
B
C
D
E
F
G

1 2 3 4 5 6 7 8 9 10 11 12

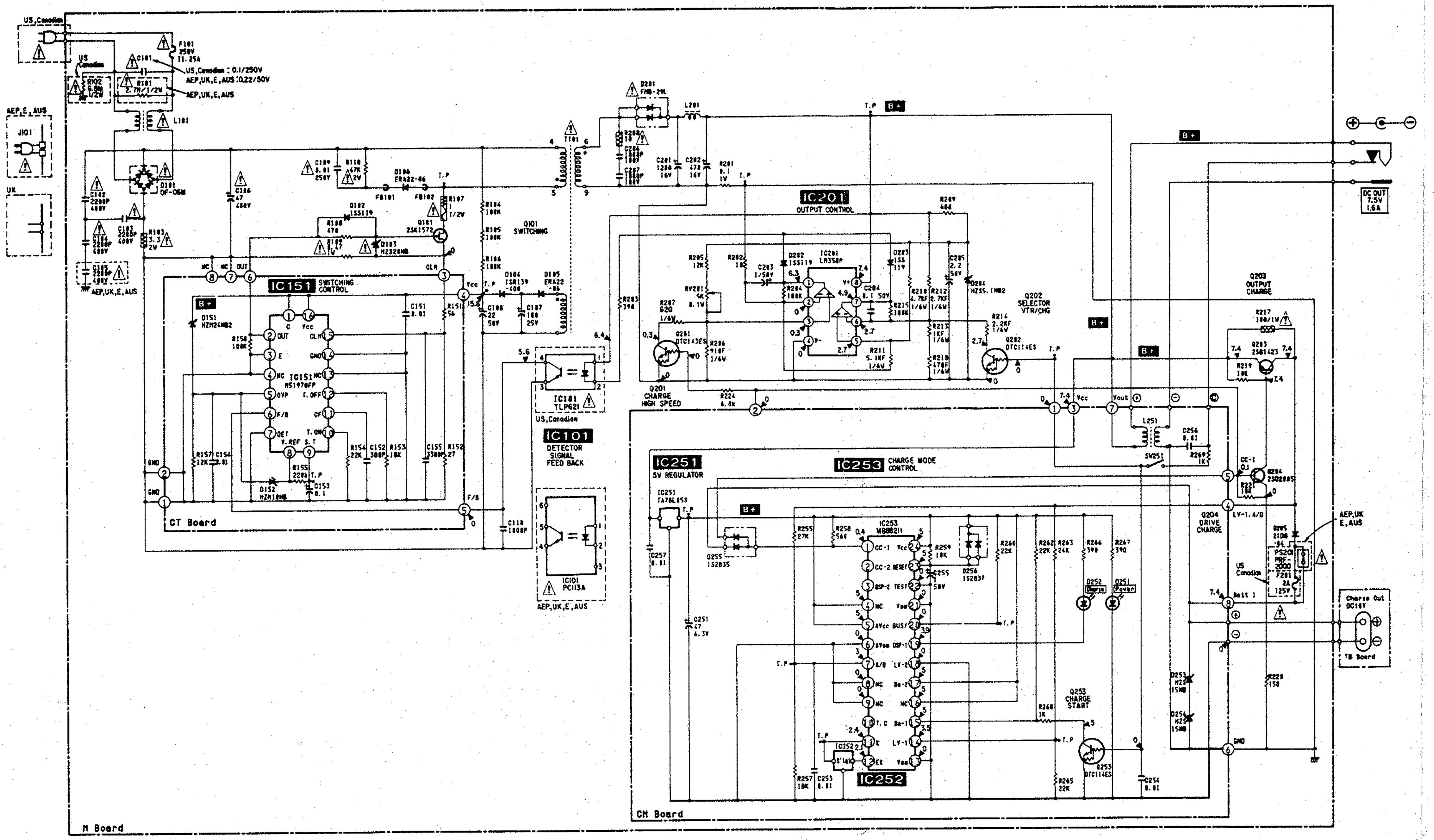
Lötseite
Conductor side

Schaltbild

3. Fertigungsstand

Schematic Diagram

3. State of Production

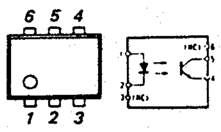

US,Canadian
AEP,E,AUS
UK
F101 250V T1.25A
US,Canadian : 0.1/250V
AEP,UK,E,AUS : 0.22/50V
L101
D101 DF-06M
Q101 2SK1572
Q101 SWITCHING
IC151 SWITCHING CONTROL
CT Board
M Board
T101
IC101 TLP621
US,Canadian
IC101 DETECTOR SIGNAL FEED BACK
IC101 PC113A
AEP,UK,E,AUS
D201 FMB-29L
L201
B+
IC201 OUTPUT CONTROL
IC201 LM358P
Q201 CHARGE HIGH SPEED
Q202 SELECTOR VTR/CHG
Q203 OUTPUT CHARGE
Q204 DRIVE CHARGE
DC OUT 7.5V 1.6A
IC251 5V REGULATOR
IC253 CHARGE MODE CONTROL
IC253 MB88211
IC252
Q253 CHARGE START
US Canadian
AEP,UK E,AUS
Charge Out DC16V
TB Board
CH Board

Gleichspannungen Tol. ± 15 % mit Digitalvoltmeter gegen Masse gemessen.
DC voltages tol. ± 15 % measured with digital voltmeter against GND.

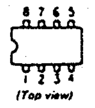
⚠ Sicherheitsbauelement (muß durch Originalteil ersetzt werden).
Security component (must be replaced by original part).

Für Werte ohne Bezeichnung, F (µF) oder Ω einsetzen.
Read F (µF) or Ω respectively unless otherwise noted.

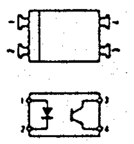
PC113A



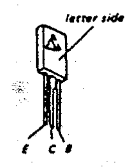
µPC358C


8 7 6 5
1 2 3 4
(Top view)

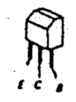
TLP621



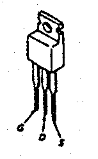
2SB1127


letter side
E C B

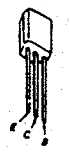
2SD773-4



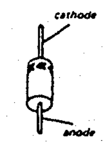
2SK1572



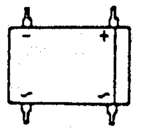
DTC114ES



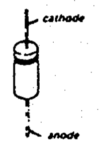
AU-02A


cathode
anode

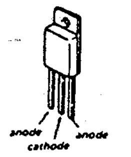
DF06M



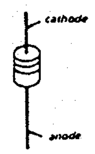
ERB81-004


cathode
anode

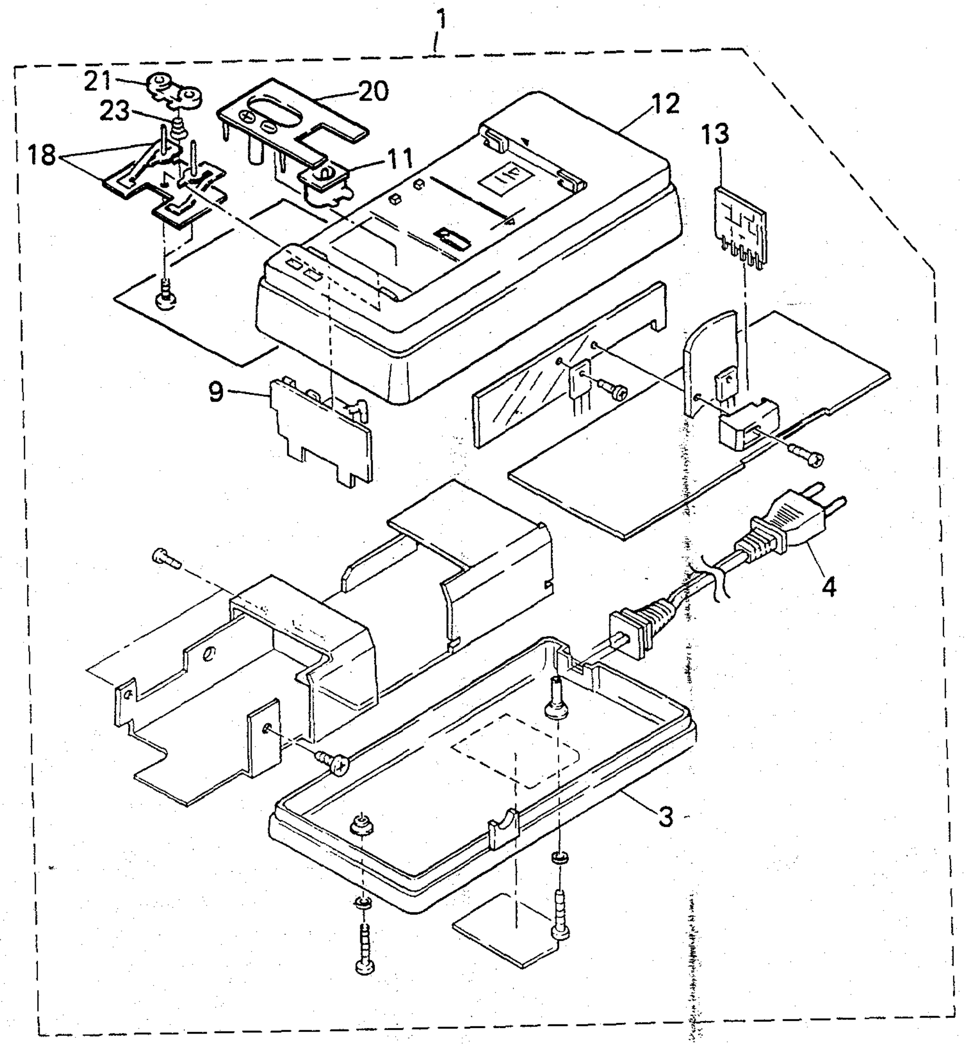
ESAC85M-009
FMB-29L


anode
anode
cathode

RD5.1ES-B2 1SS119
RD20ES-B1 1SR139-400


cathode
anode

PC-77 Explosionszeichnung
PC-77 Exploded View



Lfd. Nr. Item no.	Bestell-Nr. Part no.
1	8 619 531 402
3	8 619 501 036
4	8 619 591 703
9	8 619 521 944
11	8 619 521 643
12	8 619 501 037
13	8 619 521 945
18	8 619 521 212
20	8 619 501 038
21	8 619 511 906
23	8 619 511 616

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
	Wichtige mech. Bauteile PC-77 **Important mechanical parts PC-77**	
1	Netzadapter PC-77 kompl. AC power adaptor PC-77 compl.	8 619 531 402
2	Verbindungskabel (Platte) für PC-77 Connecting cord (plate) for PC-77	8 619 591 701
	Netzadapter PC-77 **AC Power Adaptor PC-77**	
	CT - Regelplatte kompl. CT Switching control b. compl.	
	1.+ 2. Stand, 1.+ 2. State of prod.	8 619 521 945
	3. Stand, 3. State of production	8 619 581 225
	CH - Ladekontrollplatte kompl. CH Charge control b. compl.	
	1. Stand, 1. State of production	8 619 521 944
	2. Stand, 2. State of production	8 619 521 948
	3. Stand, 3. State of production	8 619 581 224
C 101	0,22 µF / 250 V	8 942 899 278
C 102	2,2 nF / 400 V	8 942 899 276
C 103	2,2 nF / 400 V	8 942 899 276
C 104	2,2 nF / 400 V	8 942 899 276
C 105	2,2 nF / 400 V	8 942 899 276
C 106	47 µF / 400 V	8 943 499 275
C 109	10 nF / 630 V	8 942 899 277
C 201	1200 µF / 16V	8 943 499 276
D 101	DF 06 M	8 945 406 152
D 102	1SS119-04	8 945 405 995
D 103	RD 20ES-B2	8 945 421 437
D 104	AU 02A	8 945 406 153
D 105	AU 02A	8 945 406 153
D 106	AU 02A	8 945 406 153
D 151	RD 24M-T1B3	8 945 421 438
D 152	RD 10M-T1B1	8 945 421 439
D 201	ES AC 85-009	8 945 406 154
D 202	1SS119-04	8 945 405 995
D 203	1SS119-04	8 945 405 995
D 204	RD 5,1ES-B2	8 945 421 436
D 205	ERB81-004 ISR 35200	8 905 406 083
D 251	SEL 1320G-C	8 945 406 155
D 252	SEL 1920D-C	8 945 406 156
D 253	RD 15ES-T1B1	8 945 421 440
D 254	RD 15ES-T1B1	8 945 421 440
D 255	1S 2837	8 945 406 043
D 256	1S 2837	8 945 406 043
F 101	1,25 AT/250V	1 904 522 838
PS 201	2 A	8 940 599 677

Position Position	Bezeichnung Designation	Bestell-Nr. Part no.
IC 101	PC 113A	8 945 705 746
IC 151	M 51978 FP	8 945 903 105
IC 201	µPC 358C	8 905 956 757
IC 251	µPC 78L05	8 945 902 073
IC 252	FAR-C4LA	8 945 903 104
L 101		8 619 531 013
L 201	100 µH	8 619 531 014
L 251		8 619 531 015
Q 101	2 SK 786	8 945 706 089
Q 201	DTC 114 ES	8 945 705 621
Q 202	DTC 114 ES	8 945 705 621
Q 203	DTC 114 ES	8 945 705 621
Q 204	2 SB 1127-S	8 945 706 096
Q 205	2 SD 773-4	8 945 706 097
Q 253	DTC 114 ES	8 945 705 621
R 103	3,3 Ω 2 W	8 940 599 660
R 107	1,0 Ω 0,5 W	8 940 599 661
R 109	0,47 Ω 1 W	8 940 599 662
R 110	47 Ω 2 W	8 940 599 663
R 201	0,1 Ω 1 W	8 940 599 664
R 218	4,7 Ω 0,2 W	8 940 599 665
RV 201	5,0 kΩ	8 941 599 746
RV 202	1,0 kΩ	8 941 599 747
SW 251		8 619 521 213
T 101		8 619 531 202

Hinweis:
Handelsübliche Kondensatoren und Widerstände sind in der Ersatzteilliste nicht aufgeführt. Wir bitten Sie, diese Teile im Fachhandel zu beziehen.

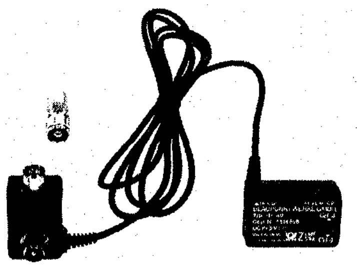
Note:
Capacitors and resistors usual in trade are not mentioned in the spare parts list. Kindly buy these parts from the specialized trade.

BLAUPUNKT
Bosch Telecom

Zubehör - Sonderzubehör
Accessories - Optional Accessories

Kundendienstschrift • Service Manual

HF-Adapter RF-80 / RF Adaptor RF-80 7 618 898 700

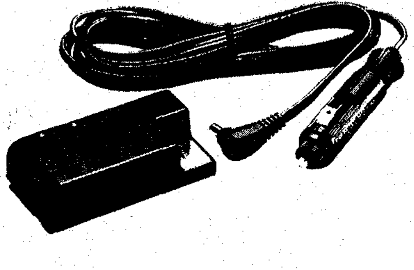


HF-Adapter RF-80 kompl. / RF adaptor RF-80 compl.
Bestell-Nr. / Part no.: 8 619 591 831

Der HF-Adapter RF-80 ermöglicht den Anschluß des Camerarecorders an ein Fernsehgerät ohne Video-/Audiobuchse.

By using the RF-80 adaptor it is possible to connect the camcorder to the TV set without Video/Audio input sockets.

Autobatterieadapter DCA-77 / Car Battery Cord DCA-77 7 618 797 700



Beipack:

1 Stück Autobatteriekabel 3m (DCC-16B)
1 Stück Bedienungsanleitung für DCA-77

Accessories supplied:

1 piece car battery cord 3m (DCC-16B)
1 piece operating instruction for DCA-77

(Keine Ersatzteile lieferbar)
(No spare parts available)

Mit dem Autobatterieadapter DCA-77 kann der Camerarecorder an eine 12 V (24 V) Zigarettenanzünder-Buchse angeschlossen werden.

By means of the car battery cord DCA-77 the camcorder may be connected to a 12 V (24 V) cigar lighter socket.

Akku / Battery Pack

Technische Daten / Specifications:

AX-77 = 6V / 1,0 Ah
AX-85 = 6V / 1,6 Ah
AX-90 = 6V / 2,4 Ah

Ladezeit / Charging time (mit / with PC-77):

AX-77 = 70 min.
AX-85 = 120 min.
AX-90 = 170 min.

Diese Akkus dienen als Stromversorgung für den Camerarecorder. Die Aufladung erfolgt mit dem Netzadapter PC-77.

Hinweise zur Behandlung und Lagerung von Ni-Cd-Akkumulatoren

1. Vor der ersten Inbetriebnahme muß der Akku geladen werden.
2. Den Akku immer so lange verwenden, bis er ganz entladen ist. (Es leuchtet dann die Warnanzeige 🔋, und der Camerarecorder schaltet ab.) Wenn ein nur teilweise entladener Akku wiederholt geladen wird, kann es dazu kommen, daß die Betriebszeit des Akkus immer kürzer wird.
3. Die in der Anleitung und in Katalogen angegebene Akku-Betriebszeit gilt nur für den Fall, daß durchgehend bei normaler Zimmertemperatur aufgenommen wird. Da dies nicht immer den tatsächlichen Bedingungen entspricht, sollte mit einer kürzeren Betriebszeit gerechnet werden.
4. Eine besondere Wartung der Akkus ist nicht erforderlich, sie sind wartungsfrei. Allerdings sollten die Akkus vor Feuchtigkeit, Verunreinigung und vor zu hohen Temperaturen, z.B. direkte Sonneneinstrahlung, geschützt werden.
5. Die Lagerung von Ni-Cd-Akkus kann in jedem Ladezustand, also auch entladen, erfolgen. Der beste Lagertemperaturbereich ist 0° bis 25°C bei einer normalen Luftfeuchtigkeit von ca. 50%.
6. Die Selbstentladung von Ni-Cd-Akkus wird sehr stark von der Temperatur beeinflußt; sie ist bei Temperaturen unter 0°C am geringsten. Bei hohen Temperaturen und hoher Luftfeuchtigkeit, wie auch bei längerer Lagerung der Akkus, ist mit Selbstentladung zu rechnen.
7. Die folgenden Punkte beachten, um Gefahren bzw. Beschädigungen zu vermeiden.
   - Den Akku nicht ins Feuer werfen.
   - Die Anschlußkontakte nicht kurzschließen.
   - Den Akku nicht auseinandernehmen oder Änderungen daran vornehmen.
   - Nur das mitgelieferte Netz-/Ladeteil zum Aufladen der Akkus verwenden.
   - Den Akku keinen starken Stößen aussetzen und nicht fallen lassen.
8. Der Akku kann beim Betrieb oder Aufladen warm werden, dies ist völlig problemlos.

Schützen Sie die Umwelt !
Verbrauchte Batterien und Akkus gehören nicht in den Hausmüll !

Bitte bei Ihrem Fachhändler oder einer Sammelstelle für Sonderstoffe abliefern.

This battery packs serves for current supply of the camcorder. It is charged via the power adaptor PC-77.

Indications for treatment and storage of Ni-Cd accumulators

1. The battery pack must be charged before using it for the first time.
2. Always use the battery pack until it is discharged completely (until the warning indication 🔋 lights up and the camcorder switches off). Frequent charging of only partially discharged battery packs, may reduce the operating time of the battery.
3. "Battery life“ as indicated in the instruction manual or catalogue of the camcorder is measured by the continuous recording time of the camcorder, placed at a room temperature using a full-charged battery.
4. The battery packs do not require spezial maintenance, they are maintenance-free. However, the battery packs should be protected from humidity, dirt and from high temperature, e. g. direct sunlight.
5. The Ni-Cd battery packs can be stored in any charging condition, including discharged condition. The optimum temperature range for storing is 0° to 25°C and a normal relative humidity of 50%.
6. The self-discharge of battery packs depends largely on the temperature; at temperatures below 0°C it is greatly minimized. At high temperatures and high humidity as well when storing for long periods, self-discharging may occur.
7. Pay attention to the following points to avoid danger or damage.
   - Do not throw the battery pack into fire.
   - Do not short-circuit the poles of the connector.
   - Do not disassamble or reconstruct the battery pack.
   - Use only the supplied AC adaptor to charge battery packs.
   - Never subject the battery packs to strong shocks or drop them.
8. During operation of the camcorder or during recharging, the battery pack may become warm. However, this does not pose any problem.

Protect the Environment !
Do not discard used batteries with your household rubbish !

Please return them to your dealer, or bring them to a collecting point for spezial substances.

CCR-800 Standard- und Sonderzubehör / Standard- and Optional Accessories

Standardzubehör Standard Accessories		
Netzadapter Power Adaptor	PC-77	7 618 796 700
Akku Battery Pack	AX-77	7 618 795 700
HF-Adapter RF Adaptor	RF-80	7 618 898 700
Stromversorgungskabel Power Supply Cable		8 619 591 701
Trageriemen Shoulder Belt		8 619 591 833
Objektivkappe Lens cap		8 619 403 042
Zwischenring 37 mm ø auf 46 mm ø Step up ring ø 37 mm on ø 46 mm		8 619 413 344
Batterie Lithium 3V Typ CR 2025 Battery Lithium 3V Typ CR 2025		
8 mm Videokassette (P5-60) P5-60 tape		

Sonderzubehör Optional Accessories		
Bereitschaftskoffer Carrying Case	CCX-300	7 618 895 700
Bereitschaftstasche Carrying Bag	CBC-300	7 618 894 700
Akku Battery Pack	AX-77 AX-85 AX-90	7 618 795 700 7 618 892 700 7 618 894 700
Autobatteriekabel Car Battery Cord	DCA-77	7 618 797 700
Schulter-/Tischstativ Shoulder/Table Stand	STS-10	7 618 770 700
Klein-/Tischstativ Table Tripod	SC-500	7 618 762 700
Groß-Stativ Large Tripod	SC-1100	7 618 763 700

Sonderzubehör Optik Optional Accessories Optical		
Tele-/Weitwinkel-Objektiv Comb. Conversion Lenses	CLS-37	7 618 899 700
Linsen-/Filtersatz Lens Filter Set	LFS-37	7 618 887 700